WARRANTY - Australia only

1. The product is warranted for 12 months from the date of purchase. Subject to the conditions of this warranty Panasonic or it's Authorised Service Centre will perform necessary service on the product without charge for parts or labour if, in the opinion of Panasonic, the product is found to be faulty within the warranty period.
2. This warranty only applies to Panasonic products purchased in Australia and sold by Panasonic Australia or its Authorised Distributors or Dealers and only where the products are used and serviced within Australia or it's territories. Warranty cover only applies to service carried out by a Panasonic Authorised Service Centre and only if valid proof of purchase is presented when warranty service is requested.
3. This warranty only applies if the product has been installed and used in accordance with the manufacturer's recommendations (as noted in the operating instructions) under normal use and reasonable care (in the opinion of Panasonic). The warranty covers normal domestic use only and does not cover damage, malfunction or failure resulting from use of incorrect voltages, incorrect installation, accident, misuse, neglect, build-up of dirt or dust, abuse, maladjustment of customer controls, mains supply problems, thunderstorm activity, infestation by insects or vermin, tampering or repair by unauthorised persons (including unauthorised alterations), exposure to abnormally corrosive conditions or any foreign object or matter having entered the product.
4. This warranty does not cover the following items unless the fault or defect existed at the time of purchase:
   (a) Video or Audio Tapes
   (b) Video or Audio Heads and Stylii resulting from wear and tear in normal use
   (c) Shaver Heads or Cutters
   (d) Cabinet Parts
   (e) User replaceable Batteries
   (f) Thermal Paper, Toner/Ink Cartridges, Drums, Developer, Film (Ink/Ribbon), Film Cartridge, Printer Heads
   (g) Microwave Oven cook plates.
   (h) Kneader mounting shaft unit (bread bakery)
5. If warranty service is required you should:
   • Telephone Panasonic's Customer Care Centre on 132600 or visit our website and use the Service Centre Locator for the name/address of the nearest Authorised Service Centre.
   • Send or bring the product to a Panasonic Authorised Service Centre together with your proof of purchase receipt as a proof of purchase date. Please note that freight and insurance to and / or from your nearest Authorised Service Centre must be arranged by you.
   • Note that home or pick-up/delivery service is available for the following products in the major metropolitan areas of Australia or the normal operating areas of the nearest Authorised Service Centres:
   (a) Picture tube (CRT) based Television Receivers (screen sizes greater than 66cm); Rear Projection TV's; Plasma/LCD televisions / displays (screen size greater than 103 cm)
   (b) Convection/Combination Microwave Ovens
   (c) Whiteboard (except portable type)
6. The warranties hereby conferred do not extend to, and exclude, any costs associated with the installation, de-installation or re-installation of a product, including costs related to the mounting, de-mounting or remounting of any screen, (and any other ancillary activities), delivery, handling, freighting, transportation or insurance of the product or any part thereof or replacement of and do not extend to, and exclude, any damage or loss occurring by reason of, during, associated with, or related to such installation, de-installation, re-installation or transit.

Panasonic Authorised Service Centres are located in major metropolitan areas and most regional centres of Australia, however, coverage will vary dependant on product. For advice on exact Authorised Service Centre locations for your product, please telephone our Customer Care Centre on 132600 or visit our website and use the Service Centre Locator.

Unless otherwise specified to the consumer the benefits conferred by this express warranty are additional to all other conditions, warranties, guarantees, rights and remedies expressed or implied by the *Trade Practices Act 1974* and similar consumer protection provisions contained in legislation of the States and Territories and all other obligations and liabilities on the part of the manufacturer or supplier and nothing contained herein shall restrict or modify such rights, remedies, obligations or liabilities.

November 2005

THIS WARRANTY CARD AND THE PURCHASE DOCKET (OR SIMILAR PROOF OF PURCHASE) SHOULD BE RETAINED BY THE CUSTOMER AT ALL TIMES

If you require assistance regarding warranty conditions or any other enquiries, please visit the Panasonic Australia website
www.panasonic.com.au or by phone on 132 600
If phoning in, please ensure you have your operating instructions available.

Panasonic Australia Pty. Limited
ACN 001 592 187 ABN 83 001 592 187
Locked Bag 505, Frenchs Forest, NSW 2086
www.panasonic.com.au

PRO-031-F01 Issue: 3.0 — 23-11-2005

Customer's Record
The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number _____ Serial Number _____

Matsushita Electric Industrial Co., Ltd.
Web Site : http://panasonic.net/
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MBS0706S0

Panasonic®

Operating Instructions
Plasma Television

Model No. **TH-42PX600A**
TH-50PX600A

VIERA

DVB® DOLBY DIGITAL
SD™ SRS TruSurround XT HDMI™ HIGH-DEFINITION MULTIMEDIA INTERFACE

English

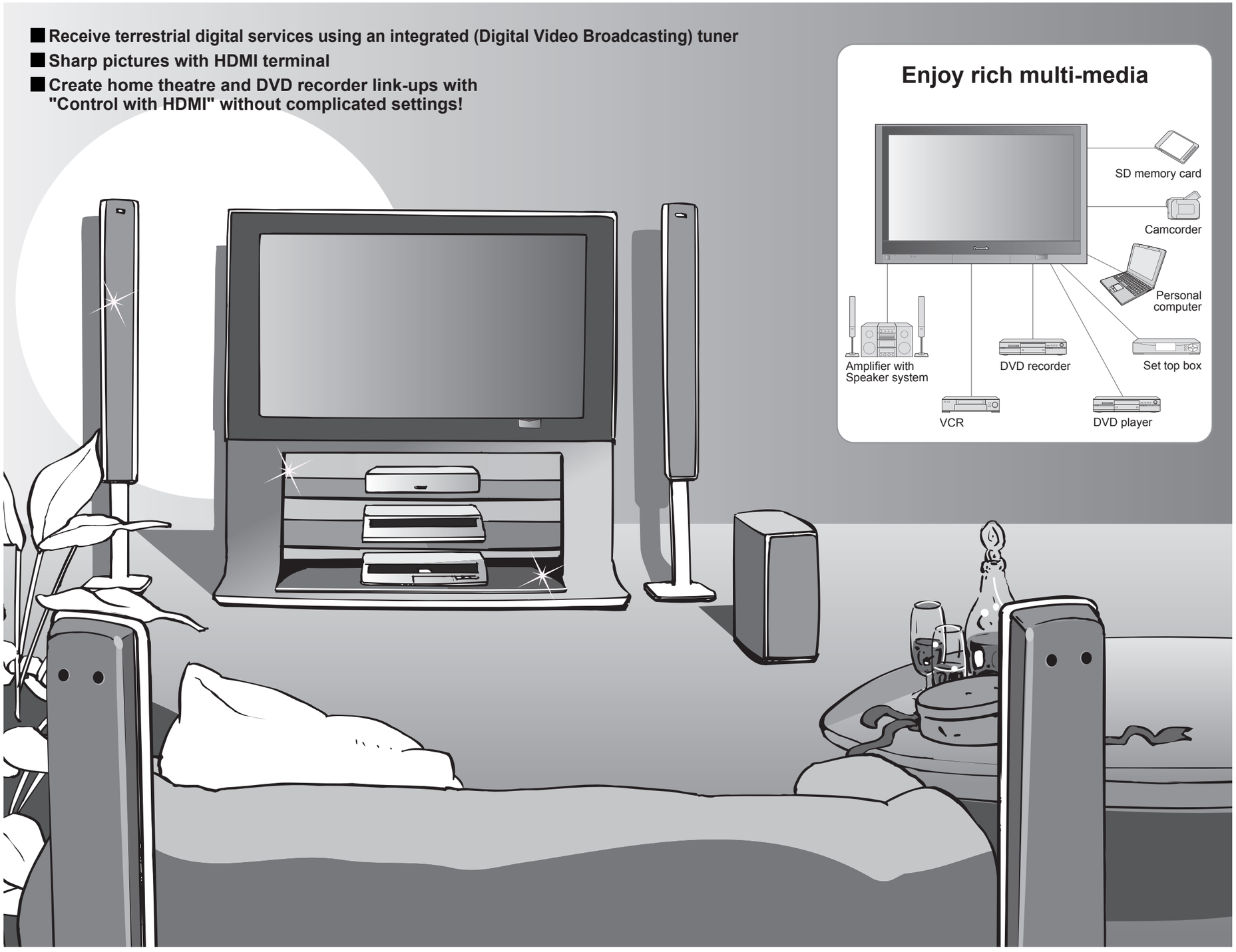
Please read these instructions before operating your set and retain them for future reference.
The images shown in this manual are for illustrative purposes only.

TQBC2106

Turn your own living room into a movie theatre!

Experience an amazing level of multi- media excitement

- Receive terrestrial digital services using an integrated (Digital Video Broadcasting) tuner
- Sharp pictures with HDMI terminal
- Create home theatre and DVD recorder link-ups with "Control with HDMI" without complicated settings!



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- Connection 8
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Enjoy your TV!

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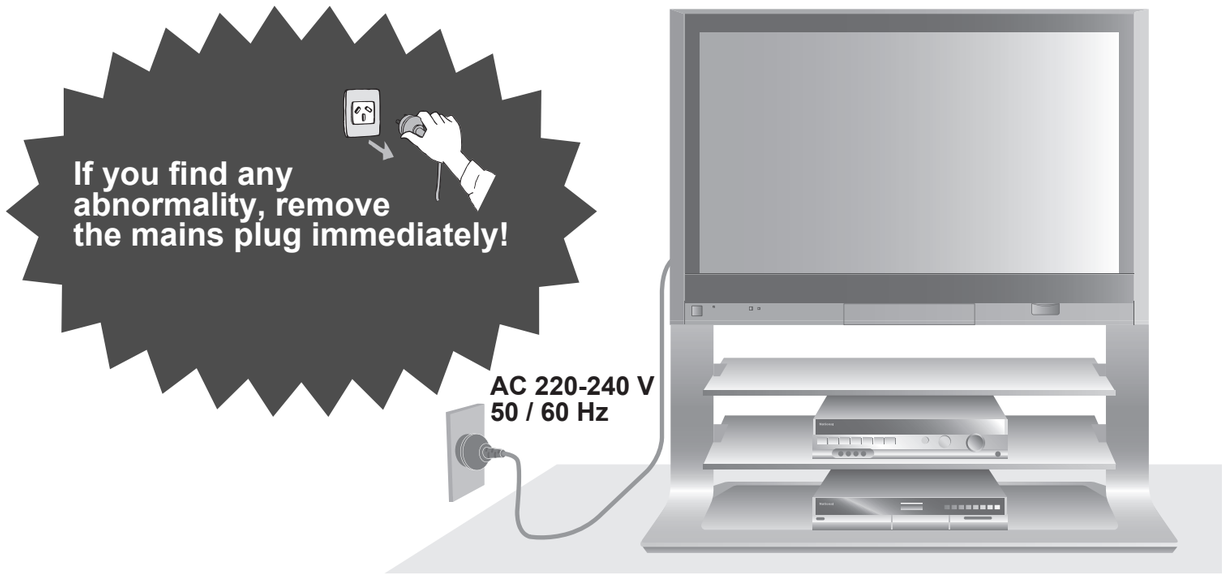
Safety Precautions

Warning

Handling the mains plug and lead

- Insert the mains plug fully into the socket outlet. (If the mains plug is loose, it could generate heat and cause fire.)
- Ensure that the mains plug is easily accessible.
- Ensure the grounding pin on the mains plug is securely connected to prevent electrical shock.
- Do not touch the mains plug with a wet hand. (This may cause electrical shock.)
- Do not damage the mains lead. (A damaged lead may cause fire or electrical shock.)
  - Do not move the TV with the lead plugged in the socket outlet.
  - Do not place a heavy object on the lead or place the lead near a high-temperature object.
  - Do not twist the lead, bend it excessively, or stretch it.
  - Do not pull on the lead. Hold onto the mains plug body when disconnecting lead.
  - Do not use a damaged mains plug or socket outlet.



Do not remove covers NEVER modify the TV yourself

(High-voltage components may cause serious electrical shock.)

- Have the TV checked, adjusted, or repaired at your local Panasonic dealer.

Do not place foreign objects inside the TV

- Do not let metal or flammable objects drop into the TV through the air vents (fire or electrical shock may result).

Do not expose to direct sunlight and other sources of heat

- Avoid exposing the TV to direct sunlight and other sources of heat. To prevent fire never place any type of candle or naked flame on top or near the TV.

Keep liquids away from the TV

- To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.
- Do not place containers with water (flower vase, cups, cosmetics, etc.) above the TV. (including on shelves above, etc.)

■Do not place the TV on an unstable surface

■Use only the dedicated stands / mounting equipment

- Using an unauthorized stand or other fixtures may make the TV shaky, risking injury. Be sure to ask your local Panasonic dealer to perform setup.
- Use optional stands / mounts (p. 6).

Caution

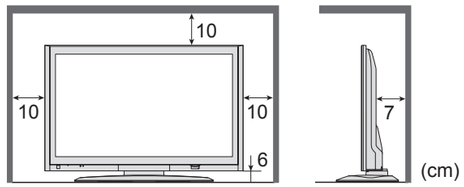
■When cleaning the TV, remove the mains plug

(Cleaning an energized TV may cause electrical shock.)

■When TV will not be used for a long time, remove the mains plug

- This TV will still consume some power even in the Off mode, as long as the mains plug is still connected to a live socket outlet.

■Allow sufficient space around the TV for radiated heat



■Do not block the rear air vents

- Blocked ventilation by curtains, etc. may cause overheating, fire or electrical shock.

Notes

Remember not to keep still pictures on the screen for extended lengths of time

Such still pictures cause after-images on the plasma screen if they are displayed for a long time. These after-images are not considered malfunctions and are not covered by the warranty.

Typical still images

- Channel number and unique logos
- Image displayed in 4:3 mode
- Video game
- Computer image

To decrease the chance of after-images, a screen saver will be automatically activated after a few minutes if there is no signal and if there is no operation in AV mode. (p. 41) The screen saver will be automatically deactivated when a signal is detected or an operation is executed.

■Keep the TV away from these equipment

- Electronic equipment
  In particular, do not place video equipment near the TV (electromagnetic interference may distort images / sound).
- Equipment with an infrared sensor
  This TV also emits infrared rays (this may affect operation of other equipment).

Maintenance

First, remove the mains plug from the socket outlet.

Display panel

Daily care: Gently wipe the surface clean of dirt by using a soft cloth.
Major contamination: Wipe the surface clean using a soft cloth dampened with clean water or water containing a small amount of neutral detergent. Then, using a soft dry cloth, evenly wipe the surface clean until it is dry.

Caution

- The surface of the display panel has been specially treated and may be easily damaged.
  Do not tap or scratch the surface with your fingernail or other hard object.
- Use care not to subject the surface to bug repellent, solvent, thinner, or other volatile substances (this may degrade surface quality).

Cabinet

Daily care: Wipe the surface clean using a soft dry cloth.
Major contamination: Dampen a soft cloth with clean water or water containing a small amount of neutral detergent. Then, wring the cloth and wipe the surface clean with it. Finally, wipe the surface clean with a dry cloth.

Caution

- Use care not to subject the TV's surfaces to detergent.
  (A liquid inside the TV could lead to product failure.)
- Use care not to subject surfaces to bug repellent, solvent, thinner, or other volatile substances (this may deteriorate the surface by peeling the paint).
- Do not allow the cabinet to make contact with a rubber or PVC substance for a long time.

Mains plug

Wipe the mains plug with a dry cloth at regular intervals. (Moisture and dust may lead to fire or electrical shock.)

Accessories / Options

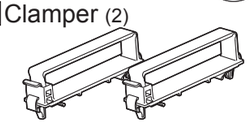
Standard accessories

Check that you have the accessories and items shown ☑

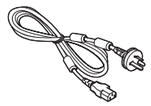
- ☐ Remote Control Transmitter
  - ● N2QAYB000039

- ☐ Batteries for the Remote Control Transmitter (2)
  - ● R6 (AA)

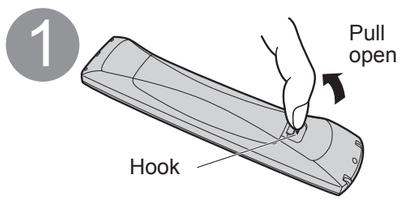
- ☐ Operating Instructions
- ☐ Guarantee
- ☐ Clamper (2)



- ☐ Mains Lead



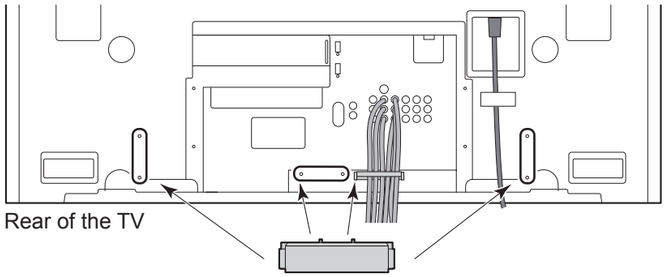
Installing remote's batteries

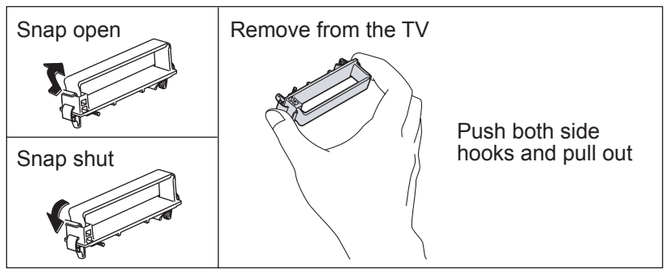


Caution

- Incorrect installation may cause battery leakage and corrosion, resulting in damage to the remote control.
- Do not mix old and new batteries.
- Do not mix different battery types (such as alkaline and manganese batteries).
- Do not use rechargeable (Ni-Cd) batteries.
- Do not burn or breakup batteries.

Attaching the cable clampers





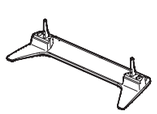
- Do not bundle the RF cable and mains lead together (could cause distorted image).
- Fix cables with clampers as necessary.
- When using the optional accessory, follow the option's assembly manual to fix cables.

Optional accessories

Pedestal

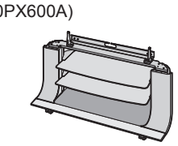
- ● TY-ST42P600W (TH-42PX600A)
- ● TY-ST50P600W (TH-50PX600A)

- ● TY-ST42P60W (TH-42PX600A)
- ● TY-ST50P60W (TH-50PX600A)



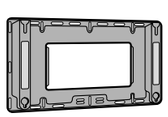
Plasma TV stand

- ● TY-S42PX600W (TH-42PX600A)
- ● TY-S50PX600W (TH-50PX600A)



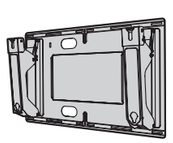
Wall-hanging bracket (vertical)

- ● TY-WK42PV3W

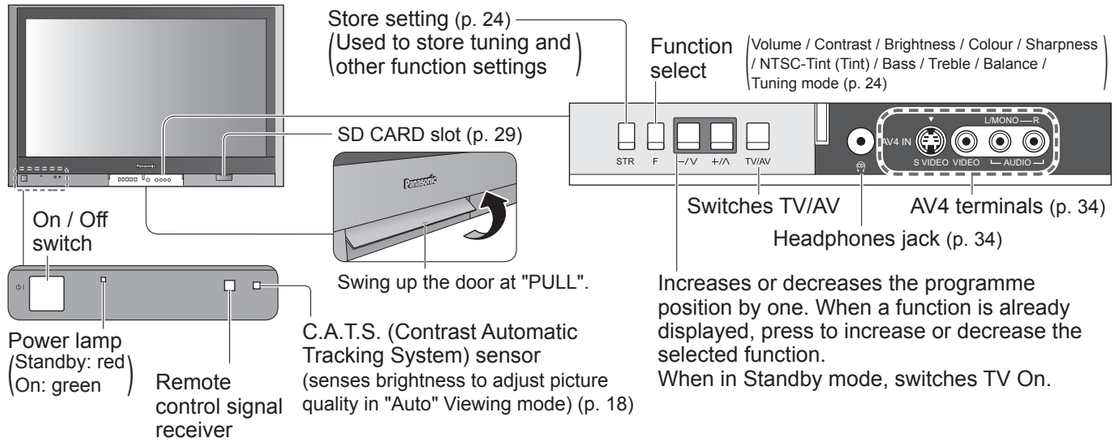


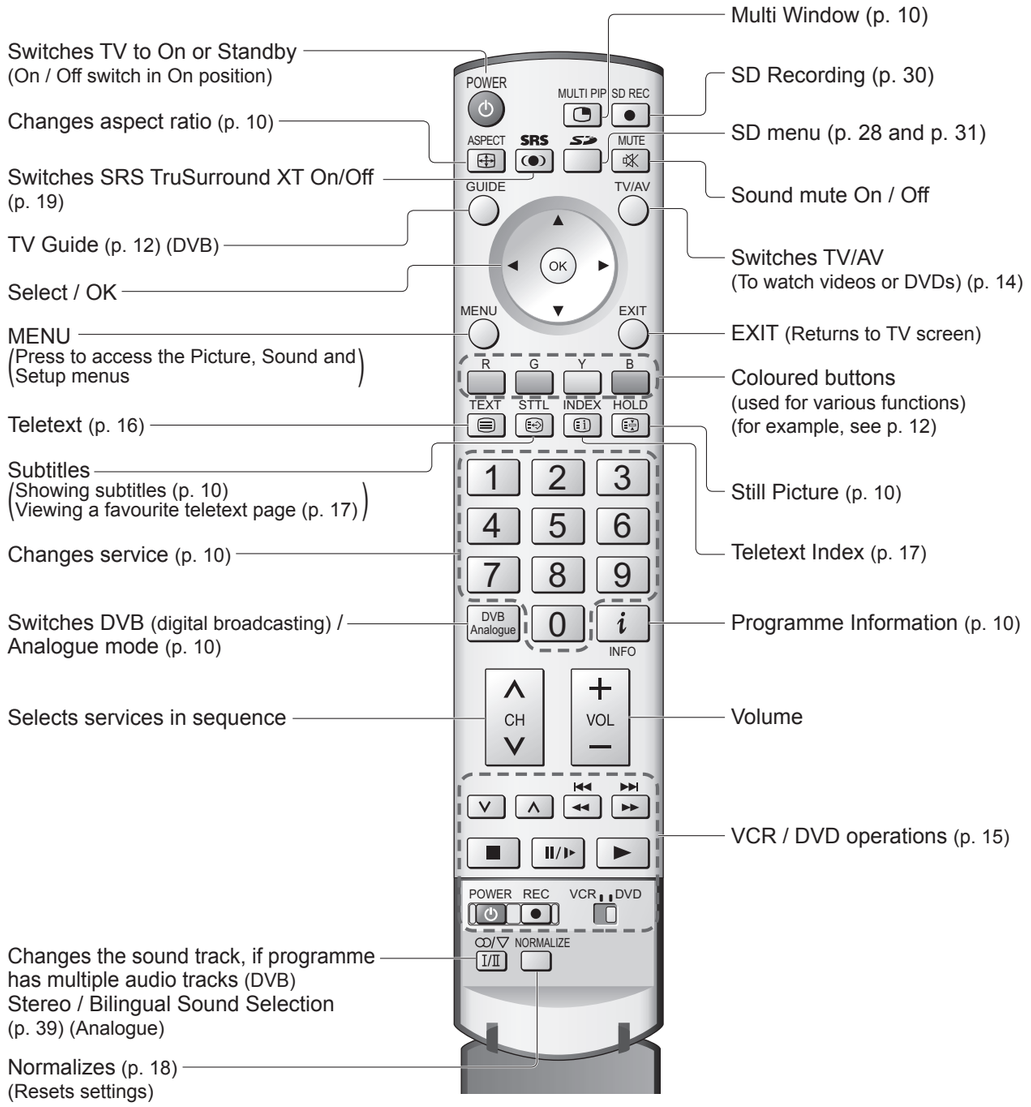
(angle)

- ● TY-WK42PR3W



Identifying Controls

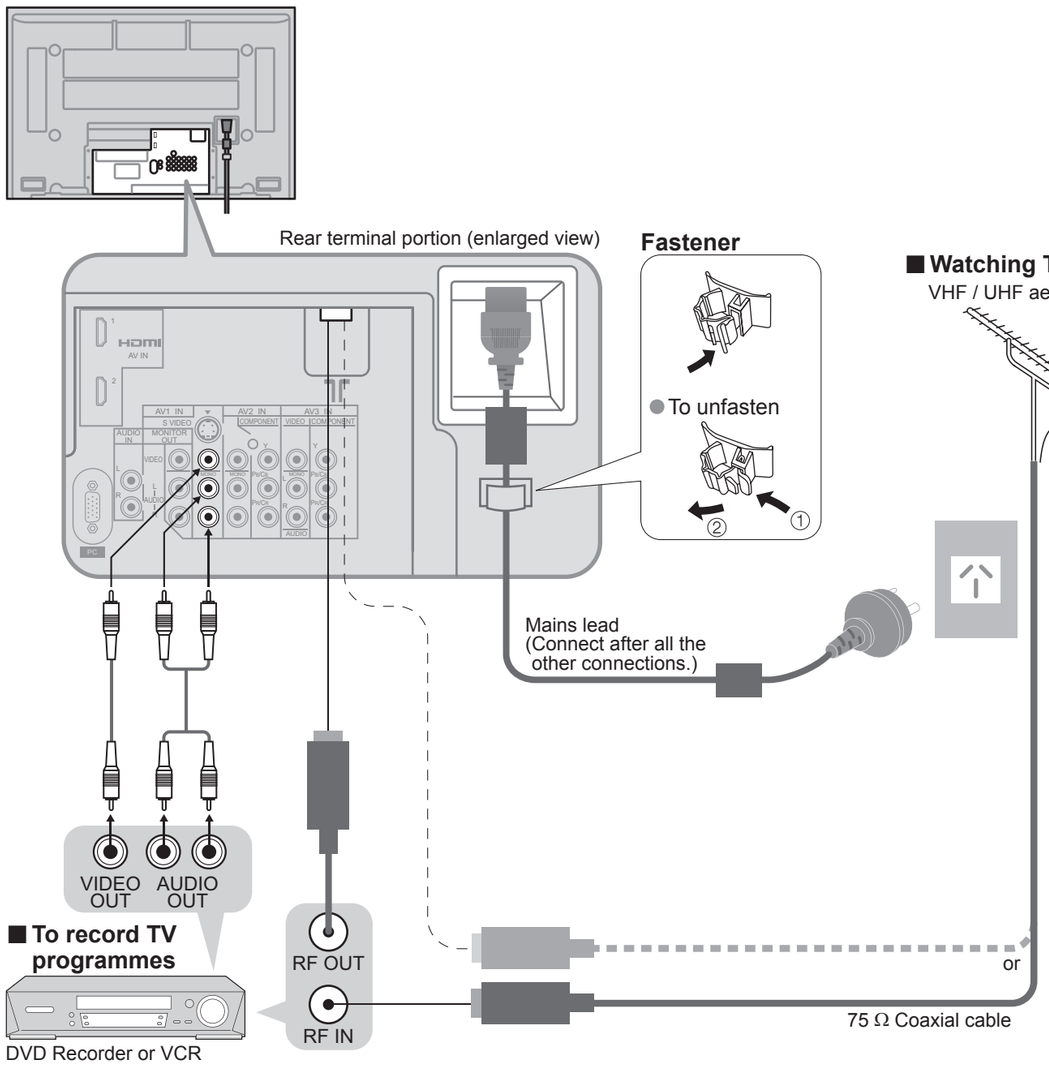

Store setting (p. 24)
(Used to store tuning and other function settings)
Function select
(Volume / Contrast / Brightness / Colour / Sharpness / NTSC-Tint (Tint) / Bass / Treble / Balance / Tuning mode (p. 24))
SD CARD slot (p. 29)
STR
F
–/V
+/Λ
TV/AV
L/MONO — R
AV4 IN
S VIDEO VIDEO AUDIO
Switches TV/AV
AV4 terminals (p. 34)
Headphones jack (p. 34)
On / Off switch
Swing up the door at "PULL".
Increases or decreases the programme position by one. When a function is already displayed, press to increase or decrease the selected function.
When in Standby mode, switches TV On.
Power lamp
(Standby: red
On: green)
Remote control signal receiver
C.A.T.S. (Contrast Automatic Tracking System) sensor
(senses brightness to adjust picture quality in "Auto" Viewing mode) (p. 18)



Connection

External equipments and cables shown in this manual are not supplied with this TV.
Please ensure that the unit is disconnected from the mains before attaching or disconnecting any leads.

Rear of the TV

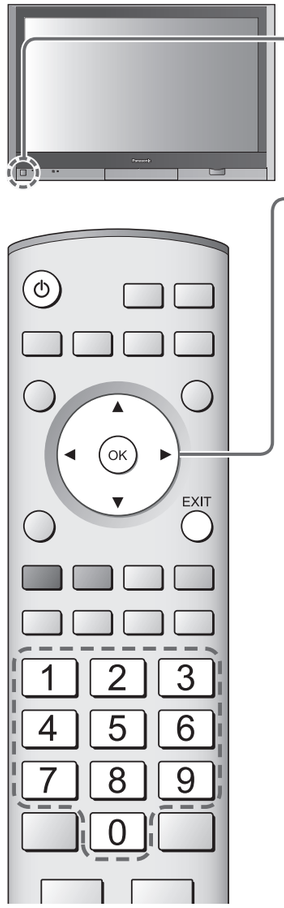


Note

- Do not put the Coaxial cable close to the mains lead to avoid noise.
- Do not place the Coaxial cable under the TV.
- To obtain optimum quality picture and sound, an Aerial, the correct cable (75 Ω coaxial) and the correct terminating plug are required.
- If a communal Aerial system is used, you may require the correct connection cable and plug between the wall Aerial socket and the TV.
- Your local Television Service Centre or dealer may be able to assist you in obtaining the correct Aerial system for your particular area and the accessories required.
- Any matters regarding Aerial installation, upgrading of existing systems or accessories required, and the costs incurred, are the responsibility of you, the Customer.

Auto Tuning

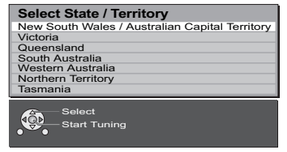
Search and store TV channels automatically.
These steps are not necessary if the setup has been completed by your local dealer.



1 Turn the TV On with the On / Off switch

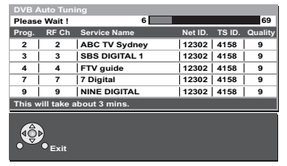
- From now on you can use the remote control to turn On the TV or turn the TV to standby mode.

2 Select your state



select

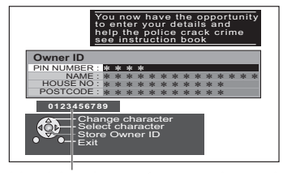
3 Start Auto Tuning


DVB Auto Tuning
Please Wait !
6
69
Prog. RF Ch. Service Name Net ID. TS ID. Quality
2 2 ABC TV Sydney 12302 4158 9
3 3 SBS DIGITAL 1 12302 4158 9
4 4 FTV guide 12302 4158 9
7 7 7 Digital 12302 4158 9
9 9 NINE DIGITAL 12302 4158 9
This will take about 3 mins.
Exit

OK — start

- Auto Tuning will start to search for digital TV services and store them.
- The sorted service order depends upon the TV signal, the broadcasting system and reception conditions.

4 Input owner ID



Usable characters and numbers

Following the on-screen operation guide, enter your own choice of PIN number, name, etc.

- For detailed procedures
  ➡ "Owner ID" (p. 26)
- Make a note of the PIN number in case you forget it.

■ When inputting owner ID later

EXIT

- If you input the ID later
  ➡ "Owner ID" (p. 26)

DVB Auto Tuning is now complete and your TV is ready for viewing.

- To check service list at-a-glance
  ➡ TV Guide (DVB) (p. 12)
- To edit analogue channels
  ➡ "Programme edit" (p. 24)

This TV has been pre-tuned by the factory to the following Analogue TV channels.

Programme No.	Channel No.
1	10
2	2
3	28
7	7
9	9
31	31

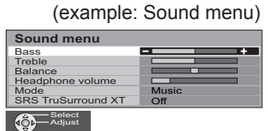
If your location does not receive these channels, perform "Auto tuning" (p. 24)**.**

Note

- If tuning have failed, perform "Auto Tuning" (p. 22).
- If it is not the first time to perform Auto Tuning, all previous tuning data will be erased.

Need help with operations?

(example: Sound menu)



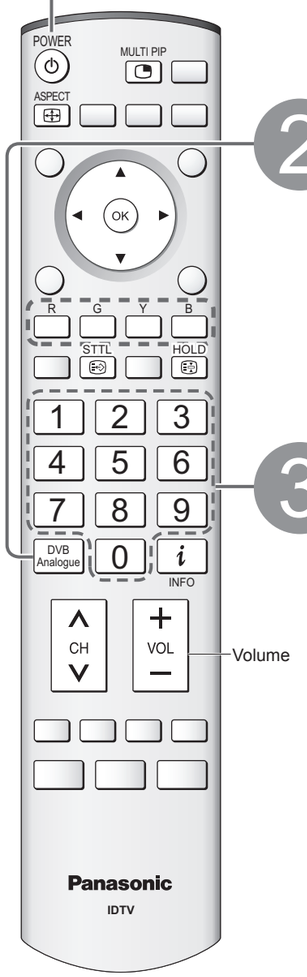
On-screen operation guide will help you.

Watching TV

1 Turn power on

POWER (for about 1 second)

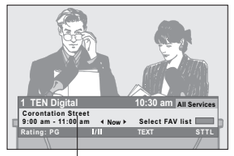
● On / Off switch on TV should be On.



2 Select DVB (Digital Video Broadcasting) or Analogue

DVB Analogue

DVB



Analogue

● Information banner

3 Select a service

CH ∧ up / ∨ down

or

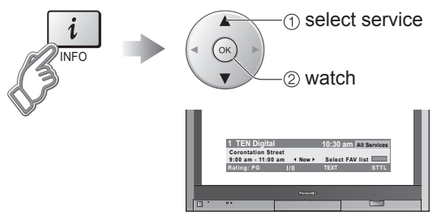
1 2 3
4 5 6
7 8 9
0

■ To select more than two-digit service number

e.g. 39 ➡ 3 → 9 (in a short time)

e.g. 390 ➡ 3 → 9 → 0 (in a short time)

■ Select a channel using Information banner (DVB)



■ Select a service using TV Guide (DVB)

➡ "Using TV Guide" (p. 12)

■ Other Useful Functions (Operate after 3)

Hold

Freeze / unfreeze picture

HOLD

Display subtitles

Display / hide subtitles (if available)

STTL

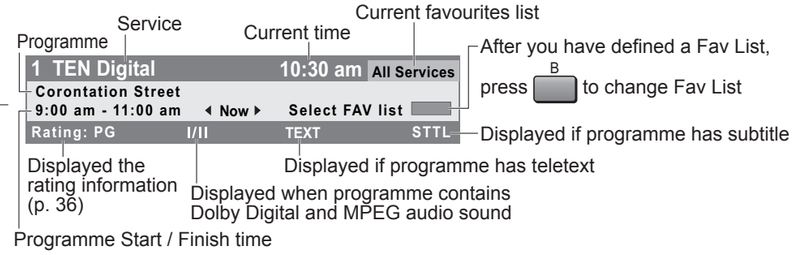
● This is the same as turning the teletext on and selecting P801.

Display information banner

Display programme information

INFO

■ In DVB:



● Information of another service ➡

● Information on next programme ➡

● To watch the programme listed in the banner ➡ OK

● Information banner operation ➡ INFO

1st press Display banner → 2nd press Banner + programme synopsis → 3rd press Exit

● To set display timeout ➡ "Banner Display Timeout" (p. 20)

● To hide ➡ EXIT

● Appears also when changing service.

■ In Analogue: Displays / hides status information.
Displayed information:
For example, Programme number, Channel number, Stereo mode, Aspect mode, Sound menu, Picture menu.

Change aspect ratio

Change the aspect ratio (p. 37)

ASPECT

● In DVB mode, aspect ratio is fixed at 16:9.

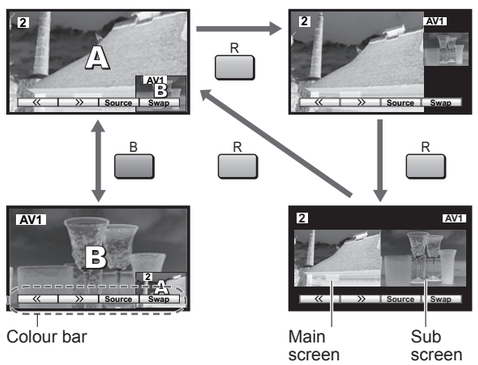
● Each press changes the mode.
(16:9 / 14:9 / Just / 4:3 / 4:3 Full (HD signal only) / Zoom1 / Zoom2 / Zoom3)

While the bar is displayed ➡ R G

Watch TV, DVD, etc. in multi window

View in multi window (p. 37)

MULTI PIP



● To change the layout, etc. first show the colour bar ➡ MULTI PIP

● To change the layout ➡ R G

● To swap ➡ B

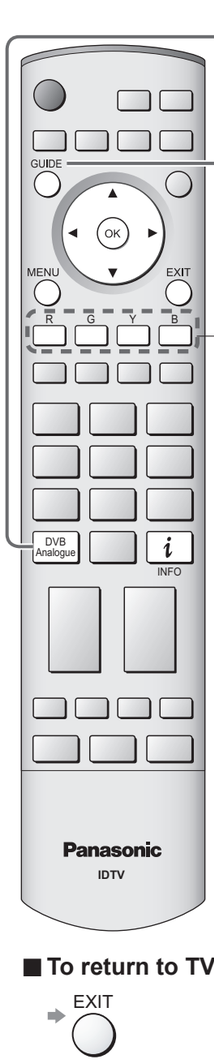
● To change the source of sub screen ➡ Y

● To return to the normal single-screen view ➡ MULTI PIP

● Remote control operations apply to the main screen.

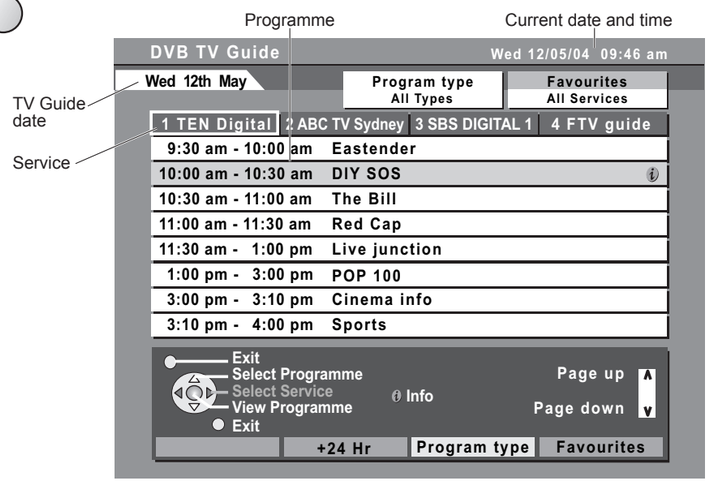
Using TV Guide

TV Guide—Electronic Programme Guide (EPG) provides an on-screen listing of programmes currently broadcast and future broadcasts over the next seven days (depending on the broadcaster).



1 DVB Analogue **Select DVB mode**

2 GUIDE **View TV Guide**



(Displays by time)

■ **To previous day**

R

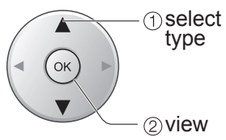
■ **To next day**

G

■ **To view a programme list of the selected type**

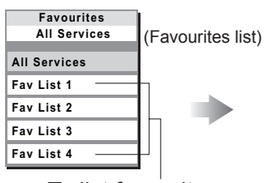
Y

(Type list)



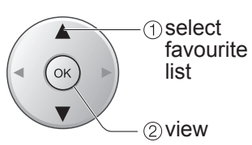
■ **To view a programme list of the selected favourites list**

B



(Favourites list)

To list favourite services (p. 20)



■ **To return to TV**

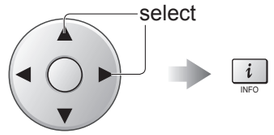
EXIT

(DVB mode only)

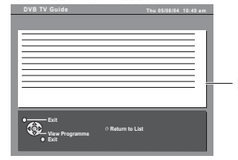
■ **Other useful functions (Operate after ❷)**

View details of the programme

Select the programme



View details

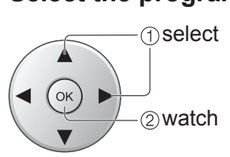


■ **To return to the start page**

INFO

Watch the programme

Select the programme now on the air



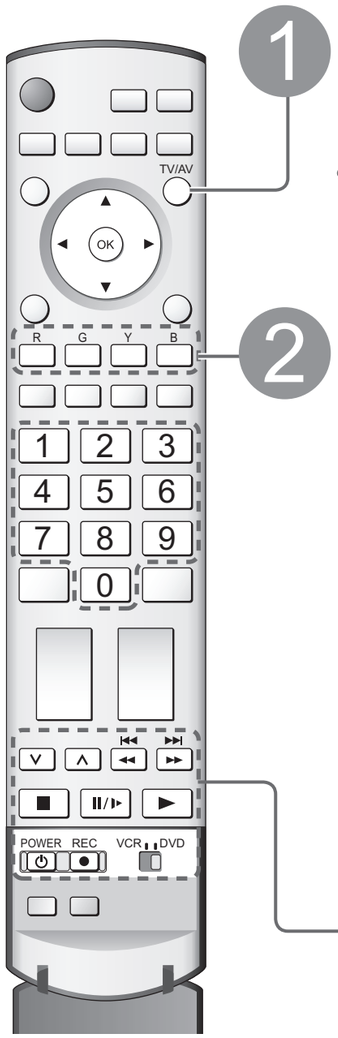
(TV screen)

Note

- When this TV is turned on for the first time, or the TV is switched off for more than a week, it may take some time before the TV Guide is completely shown.

Watching Videos and DVDs

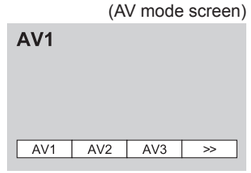
It is possible to connect a variety of external equipment to the TV. Once the equipment is connected, use the following procedure to view the input.
To connect the equipment (p. 34)



1 With the equipment turned On
Select the external input

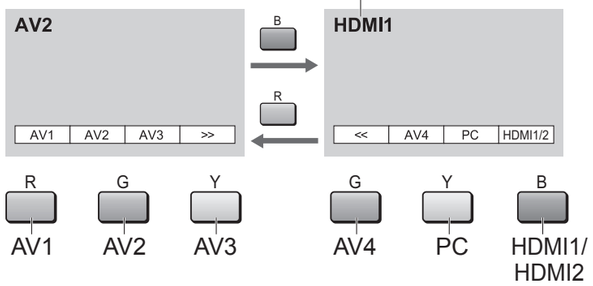
TV/AV

(AV mode screen)



2 **Select the connector**
connected to the equipment

Displays the selected connector



- example: AV1 ➡ R
  PC ➡ B ➡ Y
- When colour bar disappears ➡ Press any coloured buttons
- You can also select the connector using the TV/AV button on the front panel of the TV.
  Press the button repeatedly until you reach the connector to view.

Note
- If the external equipment has an aspect adjustment function, set to "16:9".
- For details, see the manual of the equipment or ask your local dealer.

■ To return to TV

TV/AV ➡

Panasonic equipment connected to the TV can be directly operated with the remote control.

VCR DVD	**VCR / DVD switch✻** Select VCR to operate Panasonic VCR or DVD equipment Select DVD to operate Panasonic DVD equipment or Player theatre
POWER	**Standby** Set to Standby mode / Turn on
►	**Play** Playback VCR / DVD
■	**Stop** Stop the operations
⏮ ◄◄	**Rewind / Skip / Search** VCR: Rewind, review (during playback) DVD: Skip to the previous track or title Press and hold to search backward
⏭ ►►	**Fast-forward / Skip / Search** VCR: Fast-forward, cue (during playback) DVD: Skip to the next track or title Press and hold to search forward
II/►	**Pause** Pause / Restart DVD: Press and hold for slow-motion play
∨ ∧	**Programme Up, Down** Select programme
REC	**Record** Start recording

✻The remote control will be available for various Panasonic equipment with the following settings.

① Switch to select VCR or DVD you want to change ➡ VCR DVD

② Press and hold POWER while operating ② ➡ Enter the code below (two digit code) 1 2 3 / 4 5 6 / 7 8 9 / 0 ➡ Press ■

VCR

Equipment	Code
VCR	10 (default)
DVD	11

DVD

Equipment	Code
DVD	70 (default)
Player theatre	71

Note
- After setting, execute operation confirmation.
- The respective VCR / DVD code is turned to the default when battery has been exchanged. Set it again.
- Depending on the model, operation may not be possible.

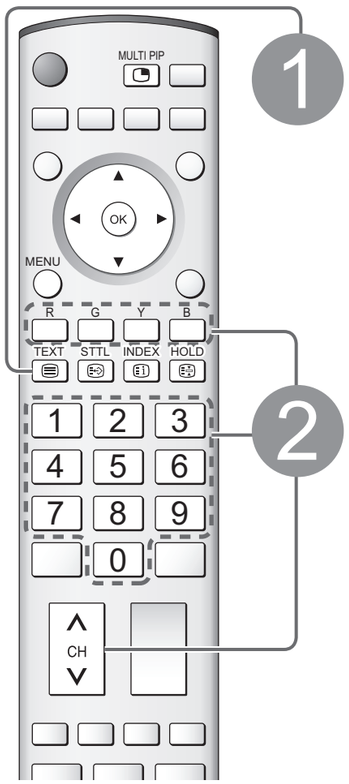
Viewing Teletext

You can enjoy teletext broadcasting, including news, weather forecasts and subtitles, if this service is provided by the broadcasters.

What is TOP mode?
In TOP mode, four differently coloured subjects are situated at the bottom of the screen. To access more information about one of these subjects, press the appropriately coloured button. This facility enables fast access to information on the subjects shown.

What is List mode?
In List mode, four differently coloured page numbers are situated at the bottom of the screen. Each of these numbers can be altered and stored in the TV's memory. ("Store frequently viewed pages", p. 17)

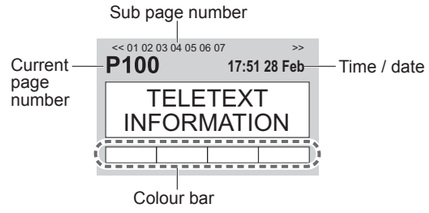
■ **To change mode** ➡ "Teletext" in Setup menu (p. 18)



Switch to Teletext

TEXT

● Displays Index (content varies depending on the broadcasters)



Select the page

1 2 3 / 4 5 6 / 7 8 9 / 0 or CH (up / down) or R G Y B (Corresponds to the colour bar)

■ **To adjust contrast** ➡ MENU (Press twice) ➡ As the blue bar is displayed

■ **To return to TV** ➡ TEXT

■ **Using teletext conveniently**

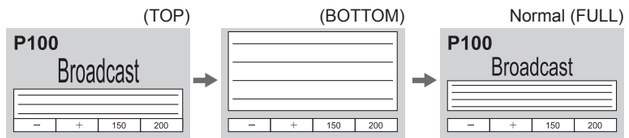
Reveal hidden data

Reveal hidden words e.g. quiz page answers

MENU ➡ R ● Re-hide ➡ R

FULL / TOP / BOTTOM

MENU ➡ G



HOLD

If you wish to hold the current page without updating

Stop or resume automatic updating

HOLD

■ **To resume** ➡ HOLD

INDEX

Return to the main index page

INDEX ● TOP mode only

Call up a favourite pages

STTL

● Call up the page stored in "blue".
● Factory setting is "P801" (subtitle page).

View in multi window

Watch TV and Teletext in two windows at once

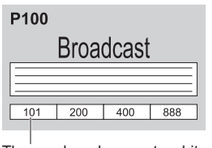
MULTI PIP

● Operations can be made only in Teletext screen.

Store frequently viewed pages

Store frequently viewed pages in the colour bar (List mode only)

As page is displayed ➡ Corresponding colour button ➡ OK — hold down



● Available for programme position 1 to 25 in Analogue mode.
● Any channels can be stored in DVB mode.
● If you want to use "STTL" button as the subtitle display, do not change in "blue" button.

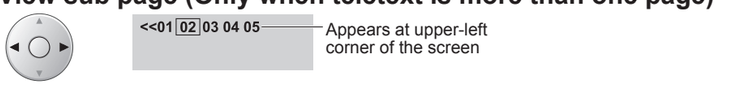
■ **To change stored pages**

Enter new page number

Colour button you want to change ➡ 1 2 3 / 4 5 6 / 7 8 9 / 0 ➡ OK — hold down

View sub page

View sub page (Only when teletext is more than one page)



■ **To view specific sub page**

MENU ➡ B ➡ T**** Broadcast ➡ Enter the 4-digit number (example: P6: 0 0 0 6) ➡ T0006

● Sub pages:
The number of sub pages varies depending on the broadcasters (up to 79 pages).
It may take some time for searching, during which time you can watch TV.

Watch TV while waiting for update

View the TV picture while searching for a teletext page

Teletext automatically updates itself when new information becomes available.

Changes to TV screen temporarily

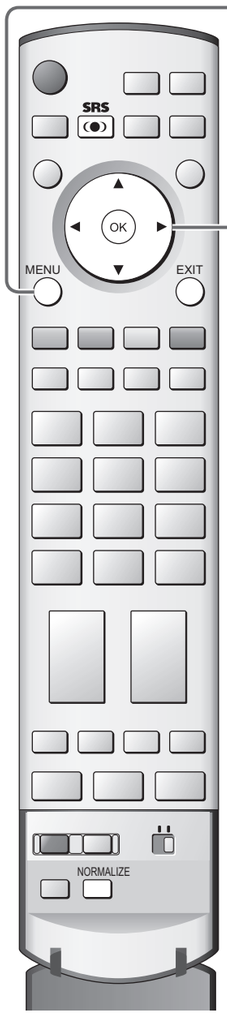
MENU ➡ Y ➡ ➡ Y ➡ View the updated page

(You cannot change the channel.)

● The news page provides a function that indicates arrival of latest news ("News Flash").

How to Use Menu Functions

Various menus allow you to make settings for the picture, sound, and other functions so that you can enjoy watching TV in your own way.

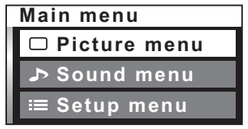


1 Display menu

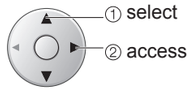
MENU

- Displays the functions that can be set (varies according to the input signal)

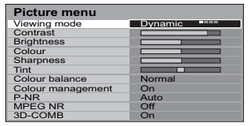
2 Select the menu



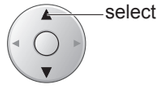
(example: Picture menu)



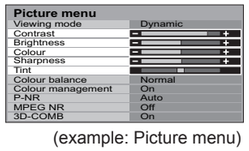
3 Select the item



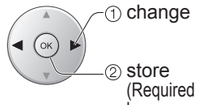
(example: Picture menu)



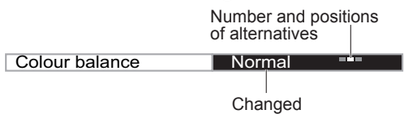
4 Adjust or select



(example: Picture menu)

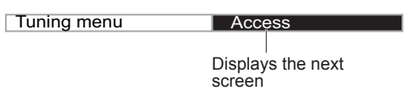


■ Choose from among alternatives



■ Adjust using the slide bar

■ Go to the next screen



■ To reset the setting (Picture and Sound)

NORMALIZE

- Resets each Viewing mode (Dynamic / Normal / Cinema) to the default settings.

■ To return to TV

EXIT

■ To return to the previous screen

MENU

Note

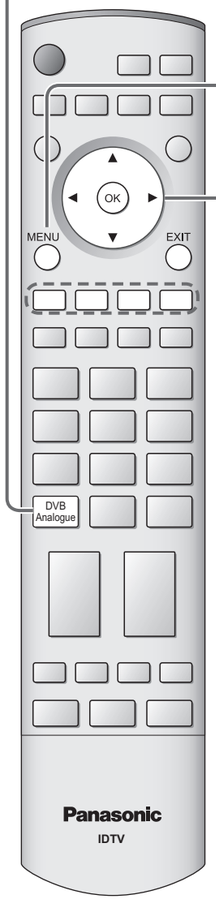
- To initialize all settings, use "Shipping condition" (p. 36).

■ Menu list

Menu		Item	Adjustments / Configurations (alternatives)
Picture menu		Viewing mode	Basic picture mode **(Dynamic / Normal / Cinema / Auto)** ● Set for each input signal
	Adjust by each viewing mode	Contrast, Brightness, Colour, Sharpness	Adjusts colour, brightness, etc. for each picture mode to suit your taste
		Tint	Adjusts tint of image ● For NTSC signal reception only
		Colour balance	Chooses the colour balance of the entire image **(Cool / Normal / Warm)**
		Colour management	Automatically adjusts colours to vivid ones **(Off / On)**
		P-NR	Automatically reduces unwanted picture noise **(Off / Normal / Dynamic / Auto)** ● Not valid on HDMI, PC, and Analogue component signal ● Set to Off when receiving a strong signal
		MPEG NR	Automatically reduces noise for watching DTV, DVD, VCD and SD Card **(Off / Min / Mid / Max)**
		3D-COMB	Automatically makes still pictures and slow pictures look more vivid **(Off / On)** ● For PAL or NTSC signal reception only ● Not valid on RGB, SECAM, S-Video, components, PC, HDMI and SD Card ● Cannot be used with DVB
Sound menu		Bass	Adjusts the output level of deep bass
		Treble	Adjusts the output level of high-pitch, shrill sound
		Balance	Adjusts volume level of right and left speakers
		Headphone volume	Adjusts the volume of the headphones
		Mode	Improves sound quality for music and dramas **(Music / Speech)**
		SRS TruSurround XT	SRS TruSurround XT® creates a high quality surround sound effect using just two speakers from the source which can output surround encoded signals **(Off / On)** ● Switching is also possible by SRS button on the remote control
		HDMI1 input	Chooses according to the signal when HDMI is connected **(Auto / Digital / Analogue)** (p. 38) ● HDMI2 terminal is for digital signal only
Setup menu		HDMI setting	Control with HDMI function (p. 32)
		Teletext	Teletext display mode **(TOP / List)** (p. 16)
		Off timer	Sets the time the TV automatically turns Off. **(Off / 15 / 30 / 45 / 60 / 75 / 90)** (minutes)
		Side panel	Increases the brightness of the side panel **(Off / Low / Mid / High)** ● The recommended setting is High to prevent panel “after-image”
		Power save	Reduces brightness of picture to economise on power consumption **(Off / On)**
		Tuning menu	Edits or sets channels (Analogue) (p. 24)
		DVB Setup Menu	Setups DVB channels (p. 20)
		DVB Tuning Menu	Edits or sets channels (DVB) (p. 22)
		Owner ID	Inputs the owner ID (p. 26)
		Shipping condition	Resets all settings, for example, when moving house (p. 36)
		Volume correction	Adjusts volume for DVB, AV, PC, HDMI and component mode
		Colour matrix	Displayed during AV or DVB mode Available only with 480p or 576p input signals in a natural colour from DVB service or digital equipment connected to AV2 / AV3 Component or HDMI1 / HDMI2 terminals Select SD or HD to adjust suitable colour parameters for SD (standard definition) or HD (high definition) ● SD: Input signal is a normal TV system ● HD: Input signal is a High-Definition system

- A different menu will be displayed while PC or SD Card is used. (p. 27 and p. 28)
- In AV mode, the Sound menu and Setup menu change a number of options.

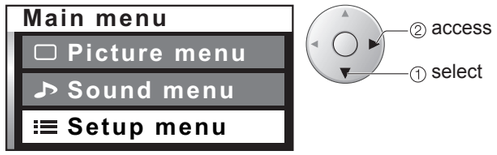
Advanced DVB Settings (DVB mode only)



1 Select DVB mode

2 Display the menu

3 Select "Setup menu"



4 Select "DVB Setup Menu"

5 Select the function

6 Set

■ **To exit**

EXIT

7 Store

OK

- If you exit after 6, the setting is not stored after turning off the TV.

List favourite services — **Favourites Edit**

Create your favourite service List from various broadcasters (up to 4: Fav List 1 / Fav List 2 / Fav List 3 / Fav List 4). The list is displayed in information banner (p. 10), TV Guide (p. 12) and then easily accessed.

① **Select a service and add it to the list**

■ **To edit List**

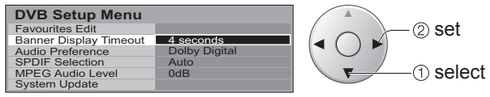
Move the cursor to the field of List to edit and:

- Delete the service ➡ G ➡ OK
- Delete all services ➡ Y ➡ OK
- Move the service ➡ B ➡ Select the position ➡ Confirm B ➡ OK

② **Store** OK

Information banner display time — **Banner Display Timeout**

Select "Banner Display Timeout" and set the time

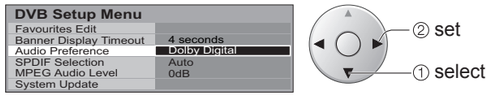


- 0 (No display) to 10 sec. in 1-sec. increments
- Information banner (p. 10)

Audio tracks — **Audio Preference**

This is the initial setting for Audio tracks. If programme has both Dolby Digital and MPEG audio tracks, priority is given to what you select.

Select "Audio Preference" and set "Dolby Digital" or "MPEG"



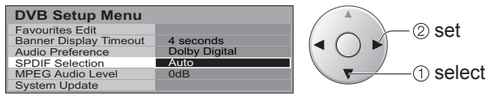
Dolby Digital : A method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2ch) audio, these signals can also be multi-channel audio.

MPEG : An audio compression method that compresses audio to small size without any considerable loss of audio quality.

Digital audio output setting — **SPDIF Selection**

This is the initial setting for digital audio output signal from DIGITAL AUDIO OUT terminal.

Select "SPDIF Selection" and set "Auto" or "PCM"



Auto: Dolby Digital is output as Bitstream (5.1ch).

- Dolby Digital is available for Bitstream (5.1ch) and PCM (2ch).
- MPEG is fixed to PCM.

MPEG audio level adjustment — **MPEG Audio Level**

Normally, MPEG sound is larger than Dolby Digital one.
You can adjust the audio level of MPEG as the initial setting.

Select "MPEG Audio Level" and set the level of the MPEG

- 0dB to -12dB in -2dB reductions

Update TV's software system — **System Update**

Update the software at appropriate intervals to ensure that the TV's performance and functions are updated.
For details (p. 36)

Select "Auto Update Search in Standby" and then select "On" or "Off"

On: Automatically performs a search in standby at 3:00 AM and 5:00 AM and downloads an update, if any

■ **To update immediately**

➡ Select "System Update Search Now" ➡ Searches for an update (for several min.) and displays a corresponding message if any ➡ OK ➡ Downloads (for about 20 min.)

■ **View software licence information**

➡ Select "Software Licence" ➡ Display

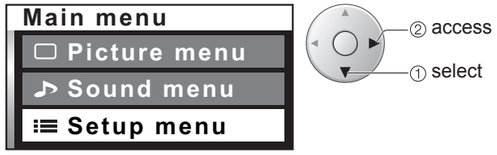
Editing and Setting Channels (DVB mode)

You can re-tune DVB TV channels when moving house or search for new services which may have recently started broadcasting.

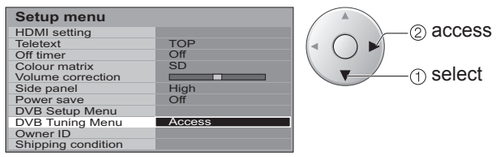
1 Select DVB mode

2 Display the menu

3 Select "Setup menu"



4 Select "DVB Tuning Menu"



5 Select the function

6 Set

7 Store (OK)

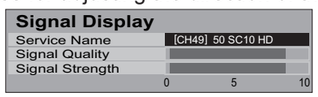
- If you exit after 6, the setting is not stored after turning off the TV.

■ **To exit**

EXIT

Check the signal condition — Signal Display

Selects a service and checks the DVB signal condition.
Use for adjusting the direction of the aerial.



- To change the service during the menu appears → CH

Signal Quality:
- Green bar ➡ Good
- Amber bar ➡ Poor
- Red bar ➡ Bad (Check the aerial)

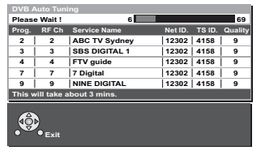
Set automatically — Auto Tuning

Automatically sets the DVB channels received in the area.
The current settings are erased

① **Start Auto Tuning**

OK start

② **Settings are made automatically**


DVB Auto Tuning
Please Wait ! 6 69
Prog. RF Ch Service Name Net ID. TS ID. Quality
2 2 ABC TV Sydney 12302 4158 9
3 3 SBS DIGITAL 1 12302 4158 9
4 4 FTV guide 12302 4158 9
7 7 7 Digital 12302 4158 9
9 9 NINE DIGITAL 12302 4158 9
This will take about 3 mins.
Exit

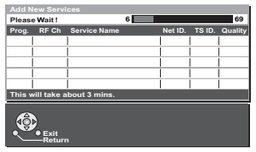
- No data is stored if an Auto Tuning sequence is interrupted.

Set manually — Manual Tuning

Sets the DVB services manually.
Normally use "Auto Tuning" or "Add New Services" for the service setting.

Add a new DVB service — Add New Services

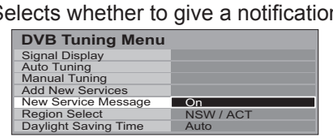
A new service is added to the DVB service list, when found.



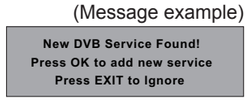
- The new service is added with the current settings saved as they are.

Notification messages appear — New Service Message

Selects whether to give a notification message when a new DVB service is found.

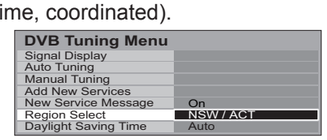


(Message example)



Adjust the standard time — Region Select

Selects the region where you live to adjust the standard time.
The time contained in the broadcast signal is UTC (Universal time, coordinated).

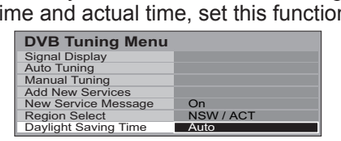


Region	Standard time	Daylight Saving Time: Auto (During Summer Time)
NSW / ACT	+10:00	+11:00
Victoria		
Queensland	+10:00	
South Australia	+9:30	+10:30
Western Australia	+8:00	
Northern Territory	+9:30	
Tasmania	+10:00	+11:00

(Based on GMT)

Adjust for Summer Time — Daylight Saving Time

Select time offset from the standard time for Summer Time.
Normally select "Auto". If there is a gap between displayed time and actual time, set this function.



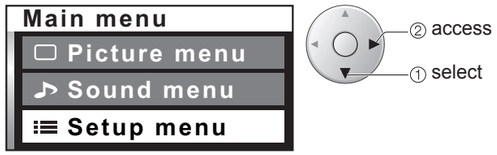
Editing and Setting Channels (Analogue mode)

The current channel settings can be changed according to your needs and reception conditions.

1 Select Analogue mode

2 Display the menu

3 Select "Setup menu"



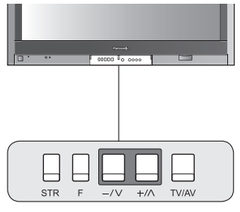
4 Select "Tuning menu"

5 Select the function

6 Set

For Manual tuning, using the buttons on the TV

("Tuning mode" on p. 7)



① F (Press repeatedly until "Tuning mode" appears)

② –/V or +/Λ (Access "Manual tuning")

③ TV/AV (Programme change mode, Search mode)

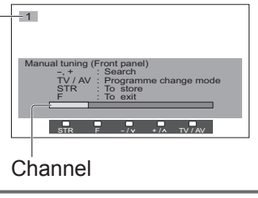
④ –/V or +/Λ (Change programme, Start searching channels)

⑤ STR (Store)

⑥ ③–⑤ (Repeat)

■ **To return to TV**

F



■ **To exit**

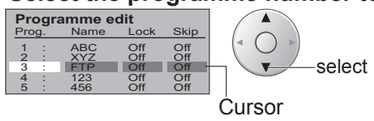
EXIT

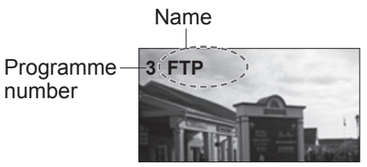
Edit channels

Programme edit

- Delete
- Add
- Move
- Change name
- Lock
- Skip

① Select the programme number to edit





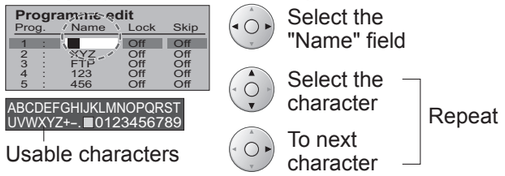
② Edit

■ **To delete** ➡ R ➡ After confirming, press R

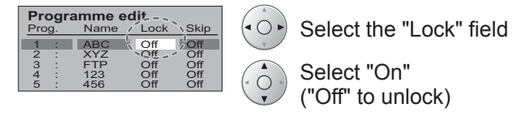
■ **To add** ➡ G ➡ After confirming, press G

■ **To move** ➡ Y ➡ Select destination ➡ Y

■ **To change the name of the broadcaster displayed when selecting channels**

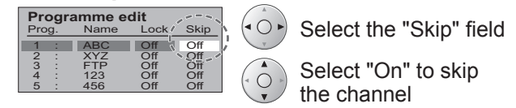


■ **To lock**



- You cannot select the channel with number buttons when locked.

■ **To skip**



- This function is only effective when pressing the Programme number up or down button either on the TV or on the remote control.

③ Store

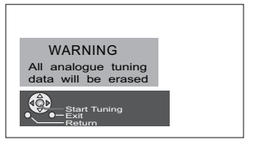
OK

Set automatically

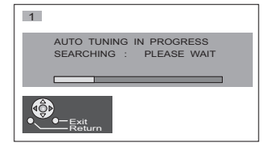
Auto tuning

Automatically set the channels received in the area

① **Start Auto tuning**



② **Settings are made automatically**



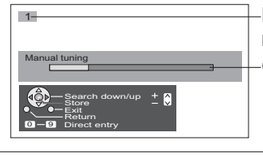
- All previous settings are erased.
- When the sequence is completed, the broadcast of programme number "1" will appear.
- If you want to return to the factory settings (Analogue channel pre-tuned), perform “Shipping condition” (p. 36).

Set manually

Manual tuning

To freely change settings after Auto tuning

① **Select the programme number and search through the channel**



② **Store** OK

- The programme number blinks.

③ **Repeat ① and ②**

Note

- If a VCR is connected with only the RF cable, select programme number "0".

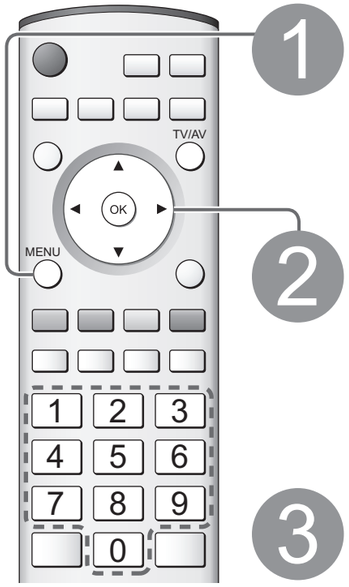
Volume adjustment

Volume correction

For the small adjustments for the volume of an individual channel

Select the channel you want to adjust ➡ Set this function ➡ OK

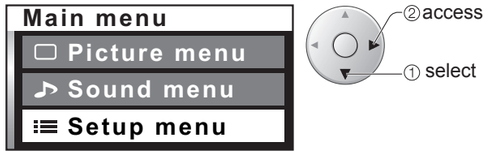
Owner ID



1 Display the menu

MENU

2 Select "Setup menu"



3 Select "Owner ID"

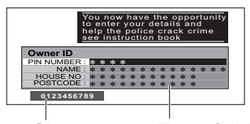
■ **To exit**

EXIT

Input owner ID

Entry of the security code (PIN number) and "personal information" (your name, address and zip code) in the TV allows the police to quickly trace the owner in case of theft.
If a PIN number has already been stored, personal information can be changed by entering that number.

① Enter the 4-digit PIN number


You now have the opportunity to enter your details and help the police crack crime see instruction book
Owner ID
PIN NUMBER :
NAME :
HOUSE NO :
POSTCODE :
0123456789

Characters Entry field

1 2 3
4 5 6
7 8 9
0

■ **To change the stored information**

Enter the PIN number ➡ OK

0 - 9

● Make a note of the PIN number in case you forget it.

② Enter your name, address, and zip code, in that order

Select the entry field

Select characters

To next character

③ Store

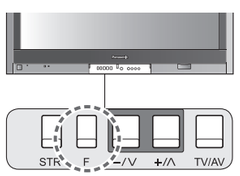
OK — store

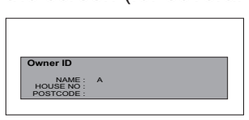
To check the "personal information" stored

Hold down for about 6 sec.

F

Displays the information on the screen (for several sec.)

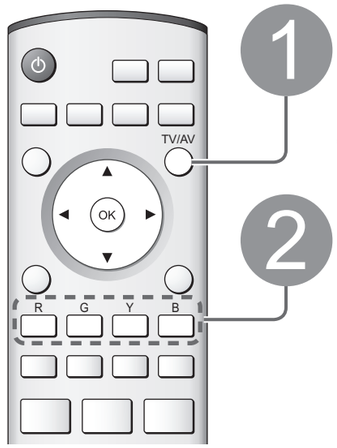




● The PIN number is not displayed.

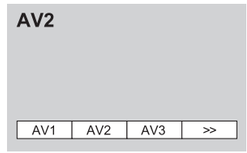
Displaying PC Screen on TV

The screen of the PC connected to the TV can be displayed on the TV.
You can also listen to PC sound with the audio cable connected. To connect PC (p. 34)



1 Select the external input

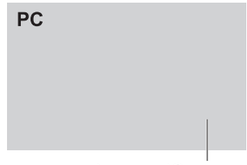
TV/AV



2 Select "PC"

① B (To next page)

② Y



● Corresponding signals (p. 39)
● If "H-freq." or "V-freq." is shown in red, the signals may not be supported.

■ **To return to TV** ➡ TV/AV

■ **PC menu setting** (changed as desired)

● Making settings ➡ "How to Use Menu Functions" 1 to 4 (p. 18)

Menu	Item		Adjustments / Configurations (options)
Picture menu	Viewing mode, Contrast, Brightness, Sharpness, Colour balance (p. 18)		
	Advanced setting	W/B High R	White balance of bright red area
		W/B High B	White balance of bright blue area
		W/B Low R	White balance of dark red area
		W/B Low B	White balance of dark blue area
			①, ② : ① and ② repeatedly adjusted
		Gamma	**(2.0 / 2.2 / 2.5 / S Curve)**
Setup menu	PC setup	Input resolution	Switches to a wide view ● VGA (640 x 480 dots), WVGA (852 x 480 dots), XGA (1,024 x 768 dots), WXGA (1,366 x 768 dots) ● Options change depending on signals
		Clock	Set to the minimum level if noise occurs
		H-pos	Adjust horizontal position
		V-pos	Adjust vertical position
		Clock phase	Eliminate flicker and distortion ● Adjust after Clock adjustment ● Set to the minimum level if noise occurs
		Sync	Chooses another synchronous signal if the image is distorted **(H&V / On G)** ● H&V : by the horizontal and vertical signals from your PC On G : by the green signal from your PC (if available)
	HDMI setting, Side panel, Power save, Volume correction (p. 18)		

● Sound menu (p. 18)

Watching SD Card

MPEG4 view : The moving pictures recorded by this TV, DIGA or D-snap will be played back.
Photo view : The still images recorded by the digital camera will be displayed.

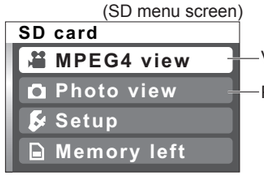
1 Insert the SD Card

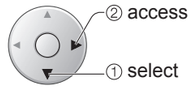
● For details on SD Cards, see p. 40 and p. 45.

2 Select the SD mode

3 Select “MPEG4 view” or “Photo view”

(SD menu screen)

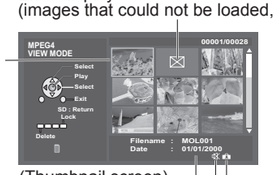




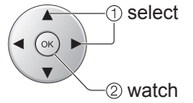
4 Select the data to be watched

Error display
(images that could not be loaded, etc.)

Selected File



(Thumbnail screen)
Date
Movie without sound
Movie for which lock has been set



■ **To delete video** ➡ R ➡ OK

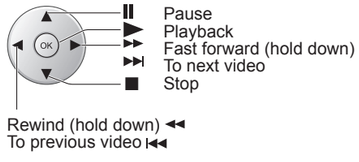
■ **To lock video** ➡ B (Display)

- Press the button again to unlock.
- Cannot be deleted when locked.
- Photos cannot be deleted or locked.

5 Watch

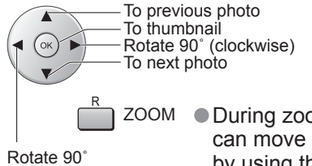
■ **To display the operation guide** ➡ INFO

● Videos



● Photos

Displayed one at a time



● During zoom mode, you can move the position by using the cursor buttons.

■ **To change the aspect ratio** ➡ ASPECT

■ **To return to TV**

➡ SD

■ **To return to the SD menu**

➡ EXIT

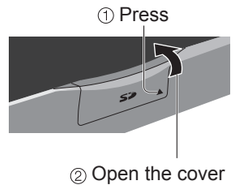
Caution

- During the playback, no signals are output from the monitor output terminals.
- “Date” shows the date on which the recording was made by this TV, DIGA or D-snap. Its format is 01/01/2000 when recordings are made without date signal.

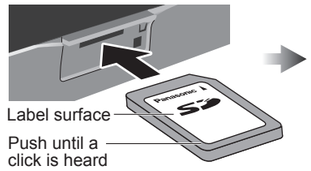
(Videos and photos)

SD Card

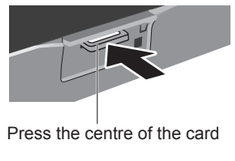
■ **To open**



■ **To insert**



■ **To remove**



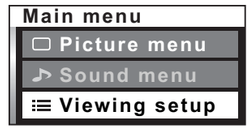
To change the view (size, repeat, slide show, etc.)

■ **Videos (operate in step 4)**

① Display the menu

MENU

② Select “Viewing setup”



③ Select the functions and access

● During step 5, you can select:
“Picture menu” (p. 18)
“Sound menu” (p. 18)

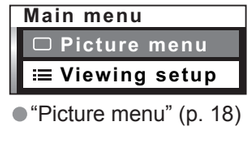
Menu	Item	Adjustments / Configurations (alternatives)
Viewing setup	**Frame size**	Video display size **(Normal / Large)**
	Repeat	Video is repeated after it ends **(Off / One file / All)**

■ **Photos (operate in step 4 or 5)**

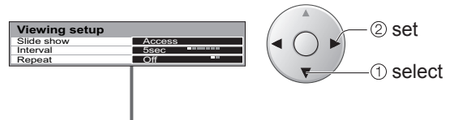
① Display the menu

MENU

② Select “Viewing setup”



③ Select the functions and access



● “Picture menu” (p. 18)

Menu	Item	Adjustments / Configurations (alternatives)
Viewing setup	**Slide show**	Start slide show ● To stop in mid-cycle ➡ MENU
	Interval	Select slide show interval **(5 / 10 / 15 / 30 / 60 / 90 / 120sec)**
	Repeat	Slide show repeat **(Off / On)**

Recording a Programme on SD Card

The TV channels can be recorded on the SD card. The recording is not available for AV input signal.
During recording, it is possible to watch other terminals input signal.

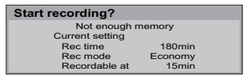
1 Insert the SD Card (p. 29)

2 While watching a programme

SD REC

- Recordable time is displayed if the recording time is not set (p. 31).
- Start recording ➡ OK
- Cancel ➡ EXIT

■ Should such a message appear



Card capacity is not enough.

- Continue ➡ OK

(Recording is stopped when the card capacity is full.)

- Cancel ➡ EXIT

3 To stop

SD REC

➡ OK

(During the confirmation message appears)

Note

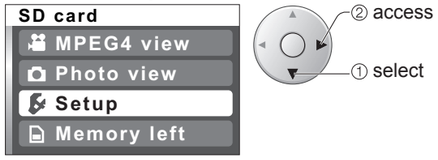
- You cannot record the copy protected signals.
- If the Off timer function is activated or press the Standby On / Off button on the remote control during recording, the recording will not stop.
- Do not press the On / Off switch on the TV during recording. Otherwise the file will be broken.
- Do not remove the SD card while recording. The data being recorded and other data stored on the SD card may become unreadable.
- SD recording may not be fully compatible or playable in some PC software or PDA devices.
- When two pictures are shown on the same screen as Multi window functions, the main window is the one that is recorded. (p. 10)
- If the signal system is changed during recording, it cannot be recorded completely.
- The signals without video (only audio) cannot be recorded completely.

This product is licensed under the MPEG-4 patent portfolio license for the personal and non-commercial use of a consumer to (i) encode video in compliance with the MPEG-4 Video Standard (“MPEG-4 Video”) and/or (ii) decode MPEG-4 Video that was encoded by a consumer engaged in a personal and non-commercial activity and/or was obtained from a licensed video provider. No license is granted or implied for any other use. Additional information may be obtained from MPEG LA. See http://www.mpegla.com.

To set the recording time and mode / To format the card

① **Select the SD mode**

② **Select "Setup"**



③ **Set**

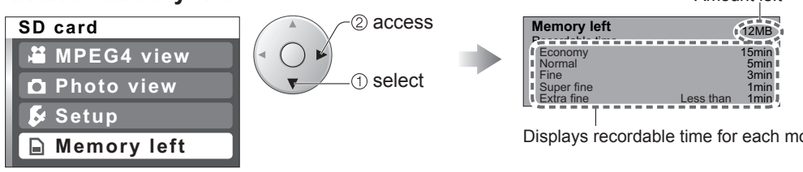
Menu	Item	Adjustments / Configurations
Setup menu	**Rec mode**	Select image quality (**Extra fine / Super fine / Fine / Normal / Economy**) ● The quality of audio is not changed. ● Multi Media Cards do not support the Extra fine and Super fine recording mode. If the recording is started in these status, recording will automatically be performed in the Fine mode.
	Rec time	Select recording time (**No setting / 5 / 10 / 15 / 30 / 60 / 90 / 120 / 180min**) ● No setting : Recorded until the Card capacity is full
	Card format	Format the card inserted in the SD Card slot (all data is erased) ● Do not remove the SD card while formatting. That may cause the card not to be able to record properly.

To check memory left

You can confirm the remaining time for recording in each Rec mode.

① **Select the SD mode**

② **Select "Memory left"**



- Since Multi Media Cards do not support the Extra fine and Super fine recording mode, "----" appears.
- Time is approximate.

Recordable time of SD Card

- Recording mode and approximate time

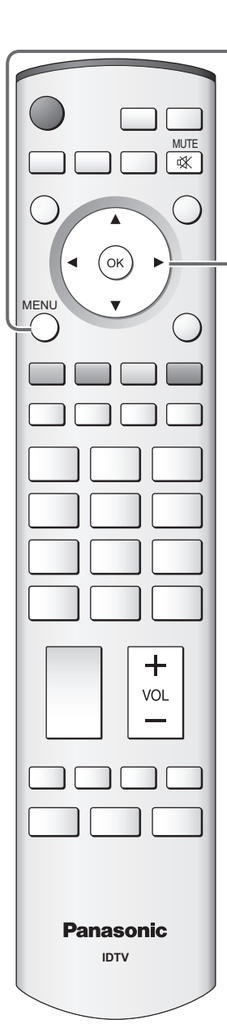
Size	Extra fine	Super fine	Fine	Normal	Economy
64MB	7minutes	9minutes	23minutes	34minutes	1hour 21minutes
128MB	14minutes	18minutes	44minutes	1hour 6minutes	2hours 35minutes
256MB	28minutes	37minutes	1hour 32minutes	2hours 17minutes	5hours 20minutes
512MB	55minutes	1hour 10minutes	3hours	4hours 30minutes	10hours 40minutes
1GB	1hour 50minutes	2hours 20minutes	6hours	9hours	21hours 20minutes

External Equipment

Control with HDMI "HDAVI Control™"*

*Enjoy additional HDMI Inter-Operability with Panasonic products which have "HDAVI Control" function.
HDMI connections to some Panasonic equipments (Panasonic DVD Recorder DIGA, Panasonic Player theatre, Panasonic Amplifier, etc.) allow you to enjoy the easy playback or home theatre.
About connections, see p. 33. Read the manuals of the equipment too.
Non-HDMI-compliant cables cannot be utilized.
About applicable equipments, consult your local Panasonic dealer.

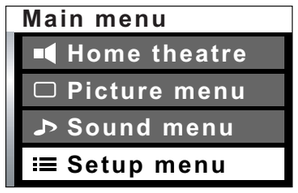
Preparations
(For the first time / When adding new equipment, reconnecting equipment or changing setup)
After connection turn the equipment on and then switch the TV on.
Select the input mode to HDMI1 or HDMI2 (p. 14), and make sure that an image is displayed correctly.

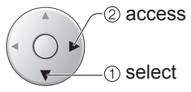


1 Display the menu

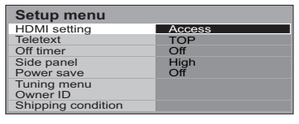
MENU

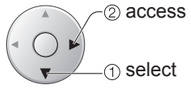
2 Select "Setup menu"



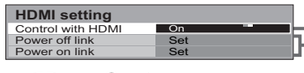


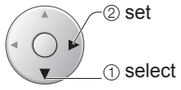
3 Select "HDMI setting"





4 Select "Control with HDMI" and set to "On"

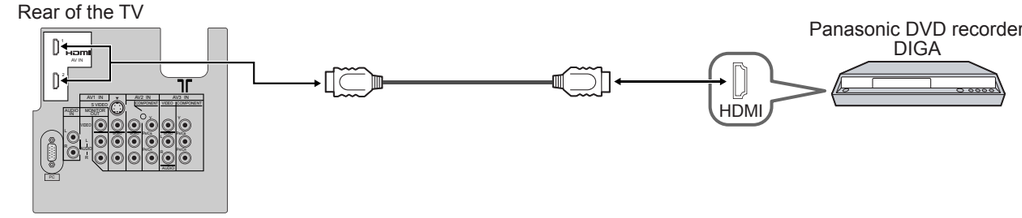




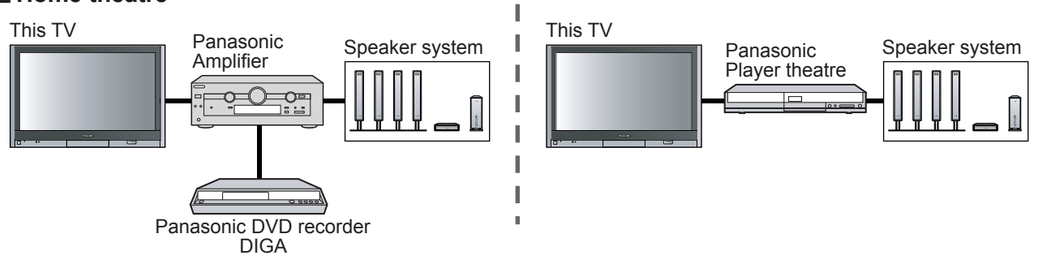
- It is recommended that you use Panasonic's HDMI cable.
  Recommended part number:
  RP-CDHG15 (1.5 m)
  RP-CDHG30 (3.0 m)
  RP-CDHG50 (5.0 m)

Connections for Control with HDMI

■ **Easy playback** (For connection to HDMI2 terminal, refer to p. 34)



■ **Home theatre**



Read the manuals of Panasonic Amplifier or Player theatre for details.

Easy playback

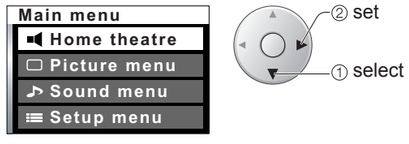
Automatic Input switching-When the connected Panasonic equipment is operated, input mode is switched automatically. When it is stopped operating, input mode is not returned.

Theatre speaker

You can control the theatre speaker with TV's remote control.
This function is available when Panasonic Amplifier or Player theatre is connected.

① **Display the menu** ➡ MENU

② **Select "Home theatre" or "TV speaker"**



■ **Home theatre:**
Adjustment for equipment (automatically turned on if it is in Standby mode)

Volume up / down ➡ VOL +/−

Mute ➡ MUTE

■ **TV speaker:**
TV speakers are active.

- When selecting "Home theatre", the sound of TV speakers is mute.
- When the equipment is turned off, TV speakers will be active.

Power on link

Set to "Set"
➡ When the connected Panasonic equipment is operated, TV is also automatically turned on and the content is reproduced. (Only when TV is in Standby mode.)

Power off link

Set to "Set"
➡ When TV is set to Standby mode, the connected Panasonic equipment is also automatically set to Standby.

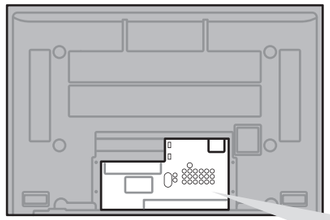
Note

- The TV remains on even if the "Control with HDMI" compatible equipment is turned off.

External Equipment

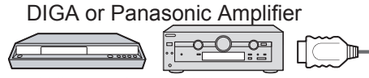
Connections

These diagrams show our recommendations for how to connect the TV to your various equipment.
For other connections, consult the instructions of each equipment, the table below, and the specifications (p. 47).



Control with HDMI (p. 32)

DIGA or Panasonic Amplifier



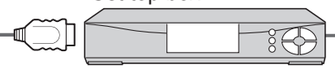
- When using HDMI2 terminal as Control with HDMI, select the external input to HDMI2 for the first time (p. 14).

Fully wired HDMI compliant cable

This slot is for services by the Panasonic dealer.

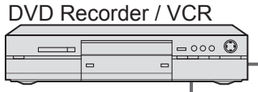
To watch satellite broadcasts

Set top box



To record / playback

DVD Recorder / VCR

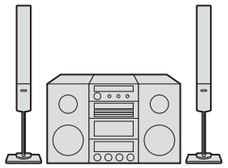


RF cable

or

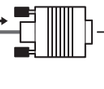
To listen with speakers

Amplifier with speaker system

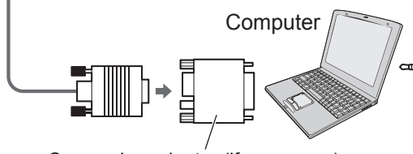


PC

(Viewing)

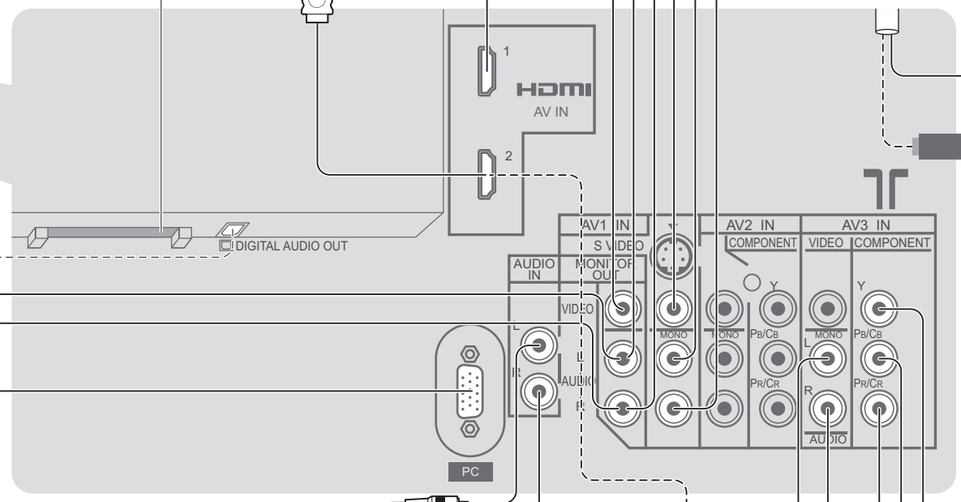


Computer



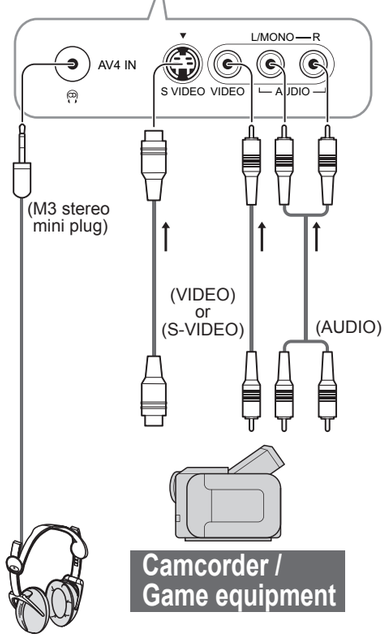
(Listening)

Conversion adapter (if necessary)



To watch DVDs

DVD player



Camcorder / Game equipment

Headphones

■ **To adjust volume**

➡ "Headphone volume" in the Sound menu (p. 18)

S VIDEO 4 pin terminal

HDMI terminal

Hot Plug Detect	19	18	+5V Power
DDC/CEC Ground	17	16	SDA
SCL	15	14	Reserved (in cable but N.C. on device)
CEC	13	12	TMDS Clock−
TMDS Clock Shield	11	10	TMDS Clock+
TMDS Data0−	9	8	TMDS Data0 Shield
TMDS Data0+	7	6	TMDS Data1−
TMDS Data1 Shield	5	4	TMDS Data1+
TMDS Data2−	3	2	TMDS Data2 Shield
TMDS Data2+	1		

Types of connectable equipment to each connector

Recording / Playback (equipment) \ Connector	AV1 IN	AV2 IN	AV3 IN	AV4 IN	MONITOR OUT	DIGITAL AUDIO OUT	HDMI 1	HDMI 2
■To record / playback videocassettes / DVDs (VCR / DVD recorder)	○	○	○	○	○			
■To watch DVDs (DVD player)	○	○	○	○			○	○
■To watch camcorder images (Video camera)	○	○	○	○				
■To watch satellite broadcasts (Set top box)	○	○	○	○			○	○
■To play games (Game equipment)	○	○	○	○				
■To use amplifier with speaker system					○	○		
■Control with HDMI							○	○

- Connect the S-VIDEO or VIDEO terminal when using AV1 / AV4 IN terminals.
- Connect the COMPONENT or VIDEO terminal when using AV2 / AV3 IN terminals.

○: Recommended Connection

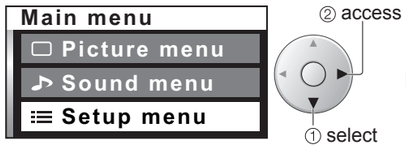
Technical Information

Shipping condition (Restore settings)

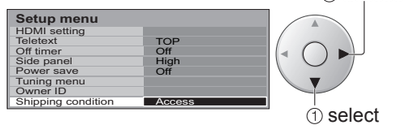
Shipping condition will reset all setting back to factory setting (DVB and Analogue tuning datas, contorol levels etc.) other than "Owner ID".

① Display the menu

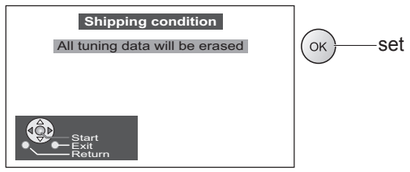
② Select "Setup menu"



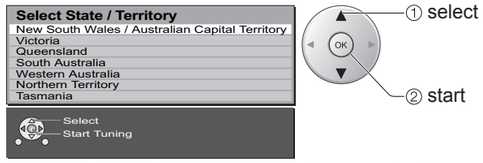
③ Select "Shipping condition"



④ Check the message and follow the on-screen instructions



⑤ Select your state and start Auto Tuning



- "Auto Tuning" will automatically start. (p. 9)

Updating the software system (DVB mode)

Update system software regularly to ensure that you have latest version software.
If there is an update available, a notification banner is displayed when the channel has the update information.

- To download new software, press "OK" ➡ Downloading (approx. 20 min.)
  If you choose not to download, press "EXIT".

■ To update automatically

Set "Auto Update Search in Standby" to "On" (p. 20)
If there is a new version software being broadcast, the TV will download this automatically.

- The automatic updating sequence is carried out at 3:00 AM and 5:00 AM every night under the following conditions.
  Standby (TV turned Off with the remote control)
  Recording is not in progress.

■ To update manually

Perform "System Update Search Now" (p. 20)
If there is an update available, a notification banner is displayed.

- To download new software, press "OK" ➡ Downloading (approx. 20 min.)
  If you choose not to download, press "EXIT".

Note

- During downloading, do not turn Off the TV or touch any button.
  (The TV is automatically activated after downloading is completed.)

Rating (DVB mode)

Rating	Meaning	Rating	Meaning
-	Not classified	M	Mature
P	Pre school	MA 15+	Mature Adult 15+
C	Children	AV 15+	Adult strong Violence 15+
G	General	R	Restricted 18+
PG	Parental Guidance recommended		

Aspect Ratio

The optimum size and aspect can be chosen, and you can enjoy finer images. (p. 10)

Signal name		Aspect modes							
		16:9	14:9	Just	4:3	4:3 Full	Zoom1	Zoom2	Zoom3
TV/AV1/AV2/AV3/AV4	PAL	O	O	O	O	–	O	O	O
	PAL 525/60	O	O	O	O	–	O	O	O
	DVB-T	O	–	–	–	–	–	–	–
	M.NTSC	O	O	O	O	–	O	O	O
	NTSC	O	O	O	O	–	O	O	O
Component/HDMI	480i (60 Hz)	O	O	O	O	–	O	O	O
	480p (60 Hz)	O	O	O	O	–	O	O	O
	576i (50 Hz)	O	O	O	O	–	O	O	O
	576p (50 Hz)	O	O	O	O	–	O	O	O
	720p (50 Hz)	O	O	O	O	O	O	O	O
	720p (60 Hz)	O	O	O	O	O	O	O	O
	1080i (50 Hz)	O	O	O	O	O	O	O	O
	1080i (60 Hz)	O	O	O	O	O	O	O	O
PC input		O	–	–	O	–	–	–	–

Note

- The ratio varies depending on the programme, etc. If the ratio is greater than the standard "16:9", black bands may appear at the top and bottom of the screen.
- If the screen size looks unusual when a widescreen-recorded programme is played back on a VCR, adjust the tracking of the VCR. (See the VCR manual.)
- To select the ratio manually: (Only "16:9" or "4:3" in PC mode)

16:9

Directly displays the image at "16:9" without distortion (anamorphic).

14:9

Displays the image at the standard "14:9" without enlargement.

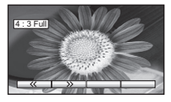
Just

Displays a 4:3 image full-screen. Stretching is only noticeable at the left and right edges.

4:3

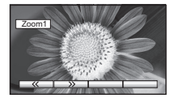
Displays the image at the standard "4:3" without distortion.

4:3 Full



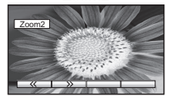
Displays a "4:3" image enlarged horizontally to fit the screen.

Zoom1



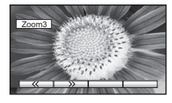
Displays a "16:9" letterbox or "4:3" image without distortion.

Zoom2



Displays a "16:9" letterbox (anamorphic) image full-screen without distortion.

Zoom3



Displays a "2.35:1" letterbox (anamorphic) image full-screen without distortion. At "16:9", displays the image at its maximum (with slight enlargement).

Multi Window

You can display two images simultaneously, such as a TV programme (digital, analogue) and a DVD picture. (p. 10)

- The same video sources cannot be displayed simultaneously in multi window.
- Multi window cannot be used with a PC, HDMI, SD card, or when 480p, 576p, 720p, 1080i signals (Y, P_B/C_B, P_R/C_R) are being displayed from AV input.
- Some signals are reformatted for suitable viewing on your display.

Technical Information

HDMI connection

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV and the equipment.
HDMI-compatible equipment (∗1) with an HDMI output terminal, such as a set top box or a DVD player, can be connected to the HDMI terminal using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI1 terminal via a DVI to HDMI adapter cable (∗2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the "HDMI1 input" menu screen. (p. 18)
- Applicable audio signal sampling frequencies (2ch L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(∗1): The HDMI logo is displayed on an HDMI-compliant equipment. (∗2): Enquire at your local digital equipment retailer shop.

Note

- HDMI2 terminal is for digital signal only.
- Use with a PC is not assumed.
- The 720p/1080i signals will be reformatted before being displayed on the screen.
- If the connected equipment has an aspect adjustment function, set the aspect ratio to "16:9".
- These HDMI connectors are "type A".
- An equipment having no digital output terminal may be connected to the input terminal of either "Component", "S-VIDEO", or "Video" to receive analogue signals.
- The HDMI input terminal can be used with only the following image signals:
  480i, 480p, 576i, 576p, 720p and 1080i. Match the output setting of the digital equipment.
- For details of the applicable HDMI signals, see p. 39.
- DVI picture position is controlled by the source equipment (ie; STB, DVD player etc.). If you experience picture position errors using DVI to HDMI adapter cable, please contact the source equipment manufacturer.

PC connection

A PC may be connected to this TV so that the PC screen is displayed and sound is heard from the TV.

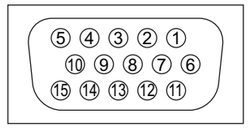
- PC signals that can be inputted: Horizontal scanning frequency 31 to 69 kHz; vertical scanning frequency 59 to 86 Hz (more than 1,024 signal lines could result in incorrect display of the image).
- A PC adapter is not necessary for the DOS/V-compliant D-sub 15-pin connector.

Note

- Some PC models cannot be connected to this TV.
- For details of the applicable PC signals, see p. 39.
- Max. display resolution

Aspect \ Model No.	TH-42PX600A	TH-50PX600A
4:3	768 × 768 pixels	1,024 × 768 pixels
16:9	1,024 × 768 pixels	1,366 × 768 pixels

- D-sub 15-pin connector signal



Pin No.	Signal Name	Pin No.	Signal Name	Pin No.	Signal Name
①	R	⑥	GND (Ground)	⑪	NC (not connected)
②	G	⑦	GND (Ground)	⑫	NC (not connected)
③	B	⑧	GND (Ground)	⑬	HD/SYNC
④	NC (not connected)	⑨	NC (not connected)	⑭	VD
⑤	GND (Ground)	⑩	GND (Ground)	⑮	NC (not connected)

Control with HDMI

HDMI connections to some Panasonic equipments allow you to enjoy the easy playback or home theatre.

- Setup the equipment to enable this function. Read the manual of the equipment.
- This function may not work normally depending on the equipment condition.
- This function may not work normally when Panasonic Player theatre is connected.
- The equipment can be operated by TV's remote control with this function on even if TV is in Standby mode.
- Image or sound may not be available for the first few seconds when the playback starts.
- Image or sound may not be available for the first few seconds when Input mode is switched.
- Volume function will be displayed when adjusting the volume of the equipment.
- Easy playback is also available by using the remote control for Amplifier. Read the manuals of Amplifier.
- "Control with HDMI" function is not possible using DVI connection.

Stereo / Bilingual Sound Selection (Analogue mode)

When you receive the stereo / bilingual sound system, sound output modes can be selected by pressing the **Stereo / Bilingual Sound Selection** button.

Audio Signal	STEREO	MAIN Ⅰ	SUB Ⅱ	MONO
Mode Indicator	◯◯	Ⅰ	Ⅱ	▽

NICAM .....Used in New Zealand, Singapore, Hong Kong etc.

Type of broadcast	Regular broadcast (Standard Audio)	Regular + NICAM MONO Ⅰ (MAIN Ⅰ)	NICAM STEREO	NICAM DUAL MONO (MAIN Ⅰ / SUB Ⅱ)
Mode Indicator	No Indicator ⟷ ▽	Ⅰ ⟷ ▽	◯◯ ⟷ ▽	Ⅰ → Ⅱ ⟷ ▽

A2 (German) .....Used in Australia, Malaysia etc.

Type of broadcast	Regular broadcast (Standard Audio)	BILINGUAL or DUAL MONO: MAIN Ⅰ / SUB Ⅱ	STEREO
Mode Indicator	No Indicator ⟷ ▽	Ⅰ ⟷ Ⅱ	◯◯ ⟷ ▽

Note

- If the stereo signal is poor or the receiving conditions are not optimum or if STEREO:MONO automatic switching occurs, it is recommended you switch from STEREO to MONO.
- Even when the contents of the receiving signal undergo changes, selection mode is kept intact.
- When the receiving conditions deteriorate, listening will be easier if the mode is set to the MONO position, using the stereo / bilingual sound selection button.
- DUAL, also known as DUAL MONO or as BILINGUAL is not currently transmitted in some countries.

Input signal that can be displayed

∗ Mark: Applicable input signal for Component (Y, P_B/C_B, P_R/C_R), HDMI and PC (D-sub 15P)

Signal name	Horizontal frequency (kHz)	Vertical frequency (Hz)	Component	HDMI	PC
480i (60 Hz)	15.73	59.94	∗	∗	
480p (60 Hz)	31.47	59.94	∗	∗	
576i (50 Hz)	15.63	50.00	∗	∗	
576p (50 Hz)	31.25	50.00	∗	∗	
720p (60 Hz)	45.00	60.00	∗	∗	
720p (50 Hz)	37.50	50.00	∗	∗	
1,080i (60 Hz)	33.75	60.00	∗	∗	
1,080i (50 Hz)	28.13	50.00	∗	∗	
640 × 400 @70 Hz	31.46	70.07			∗
640 × 480 @60 Hz	31.47	59.94			∗
640 × 480 @75 Hz	37.50	75.00			∗
852 × 480 @60 Hz	31.47	59.94			∗
800 × 600 @60 Hz	37.88	60.32			∗
800 × 600 @75 Hz	46.88	75.00			∗
800 × 600 @85 Hz	53.67	85.06			∗
1,024 × 768 @60 Hz	48.36	60.00			∗
1,024 × 768 @70 Hz	56.48	70.07			∗
1,024 × 768 @75 Hz	60.02	75.03			∗
1,024 × 768 @85 Hz	68.68	85.00			∗
1,280 × 1,024 @60 Hz	63.98	60.02			∗
1,366 × 768 @60 Hz	48.36	60.00			∗
Macintosh13" (640 × 480)	35.00	66.67			∗
Macintosh16" (832 × 624)	49.72	74.54			∗
Macintosh21" (1,152 × 870)	68.68	75.06			∗

Note

- Signals other than above may not be displayed properly.
- The above signals are reformatted for optimal viewing on your display.
- Applicable input signal for PC is basically compatible to VESA standard timing.
- PC signal is magnified or compressed for display, so that it may not be possible to show fine detail with sufficient clarity.

Technical Information

Data format for Card browsing

Photo	: Still images recorded with digital still cameras compatible with JPEG files of DCF* and EXIF standards
Video	: Videos recorded with this TV, Panasonic DVD recorder or digital camcorder
Data format	: FAT12 or FAT16
Number of pixels for motion picture	: 320 x 240 (QVGA) or 176 x 144 (QCIF)
Max. number of files	: 65,535
Image resolution	: 8 x 8 to 5,120 x 3,840
Sound format	: G.726 (32 Kbps, 8-kHz sampling frequency, monaural)

- Compliant card type (maximum capacity): SD Card (2 GB), Multi Media Card, miniSD Card (requiring miniSD adapter)
- Check the latest information on the card type at the following website. (English only)
  http://panasonic.co.jp/pavc/global/cs

*DCF (Design rule for camera file system): Unified standard established by Japan Electronics and Information Technology Industries Association (JEITA).

Note

- A JPEG image modified with a PC cannot be displayed.
- Images imported from a PC must be compatible with EXIF (Exchangeable Image File) 2.0, 2.1, and 2.2.
- Partly degraded files might be displayed at a reduced resolution.
- MPEG4 view can only show moving pictures recorded by this TV, Panasonic DVD recorder DIGA or mobile camera D-snap.
- When recording in MPEG4, format the SD card with this TV. The card may not operate properly if formatted with different equipment.
- Memory cards must be formatted with FAT12 or FAT16 in order to be viewed on TV. If the card is not formatted, it may cause incompatibility with certain memory card adapters. If this happens, reformat the card using your digital camera.
  Reformatting the card will erase the images and pictures stored in it. Refer to your camera manual for more information.
- This function cannot display Motion JPEG and still image not DCF formatted (i.e. TIFF, BMP).
- The displayed image size depends on the recorded image size.

Folder structure viewed in PC

Photo

- DCIM — Created automatically
  - 100_PANA — 3-digit folder number + 5-digit arbitrary characters
    - P1000001.JPG
    - P1000002.JPG
    - P1000003.JPG
    - P1000004.JPG

    — 4-digit arbitrary characters + 4-digit file number
    - Usable characters: 1-byte "a to z", "A to Z", "0 to 9," and "_"

Video

- SD_VIDEO — Created automatically
  - PRL001 — Created automatically "PRL" + 3-digit arbitrary characters
    - MOL001.ASF
    - MOL002.ASF
    - MOL003.ASF
    - MOL004.ASF

    — "MOL" + 3-digit arbitrary characters
    - Usable characters: 1-byte "a to f", "A to F", and "0 to 9"

- The folder and file names may be different depending on the digital camera used.
- Do not use two-byte characters or other special codes.
- The card may become unusable with this TV if file or folder names are changed.

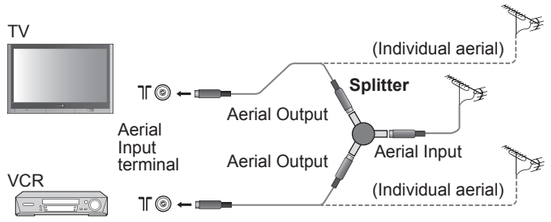
FAQs

Before requesting service or assistance, please follow these simple guides to resolve the problem.
If problem still persists, please contact your local Panasonic dealer or Panasonic Customer Care Centre for assistance. (p. 48)

	Problem	Actions
Screen	VIERA logo appears at the four corners of the screen Contrast is reduced	● The function to prevent after-image is activated. (Not a faulty symptom) • The screen saver is activated if the TV is not operated for a certain time in AV mode. • Contrast is lowered when radio, menu, etc. lasts for several minutes. • "after-image" (p. 5)
Screen	White spots or shadow images (noise)	● Check the position, direction, and connection of the aerial.
Screen	Chaotic image, noisy	● Set "P-NR" in the Picture menu (to remove noise). (p. 18) ● Check nearby electrical products (car, motorcycle, fluorescent lamp).
Screen	No image can be displayed	● Is "Colour" or "Contrast" in the Picture menu set to the minimum? (p. 18)
Screen	Blurry or distorted image (no sound or low volume)	● Reset channels. (p. 22 and p. 24)
Screen	Neither image nor sound is produced	● Is the TV in "AV mode"? ● Is the mains lead plugged into the socket outlet? ● Is the TV turned On? ● Check Picture menu (p. 18) and volume.
Screen	The channel number is not disappeared on the screen	● The channel number is being broadcast by the TV station. There is no way to turn this off.
Screen	Only one part remains dark	● A pixel or luminescent spot may occasionally be missing in plasma displays. (Not a faulty symptom)
Sound	No sound is produced	● Is "Sound Mute" active? (p. 7) ● Is the volume set to the minimum?
Sound	Sound level is low or sound is distorted	● Sound signal reception may be deteriorated.
Sound	Whirling sound is heard	● The sound is from built-in cooling fan (not a sign of faulty operation).

FAQs

DVB

Problem	Actions
Aerial connection when using DTV and VCR / DVD Recorder	● To maintain optimum signal quality from TV aerial, use a TV aerial splitter (as illustrated) when connecting two or more equipments to the same aerial. 
After DVB Auto Tuning only some or no DVB channels are found	● Check to ensure your area is covered by DVB transmissions. (www.dba.org.au/) ● Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1. Note: If you live within 5-10 Km of DVB transmission towers, a combined VHF / UHF aerial should be adequate. Outside this area, separate VHF and UHF aerials provide superior reception performance. ● If you live in a unit or apartment, check to ensure the Master Antenna TV (MATV) system is designed for analogue and DVB-T reception. Please consult your body corporate. (www.dba.org.au/)
Picture regularly breaks up on some channels, or "No Signal" message	● Check "Signal Display". (p. 22) If "Signal Quality" or "Signal Strength" are displayed in red or constantly changing, check aerial. If problem persists consult your local TV aerial installer. ● Check that the aerial and antenna cable are designed for DVB. For your safety, the aerial and cable should be inspected / installed by a licenced installer that should comply with Australian Standard AS1417.1. ● Interference (known as impulse noise) from household appliances such as light switches, fridges etc may cause picture break up and / or audio distortion. Use high quality quad shielded coaxial cable fly lead between TV and antenna wall socket to minimise impulse noise pickup. If problem persists consult your local TV aerial installer. ● When "No Signal" message is displayed check TV aerial connection. ● The received signal may be too weak to allow the TV to reliably lock to the desired “No Signal” channel to generate a stable picture. Repeat the tuning procedure (p. 22). If problem persists consult your local TV aerial installer.

	Problem	Actions
DVB	**Picture very infrequently breaks up on some or all channels**	● Electrical atmospheric interference caused by local or distant lighting storms or heavy rain with wind in "leafy" locations may cause pictures to break up and audio to mute or distort momentarily. ● Impulse noise interference from an infrequently used electrical appliance, or a passing vehicle or lawn mower with a "noisy" ignition system.
HDMI	**Pictures from an equipment are unusual when the equipment is connected via HDMI**	● Is the HDMI cable connected properly? (p. 34) ● Turn Off the TV and equipment, then turn them On again. ● Check an input signal from the equipment. (p. 39) ● Use an equipment compliant with EIA/CEA-861/861B.
HDMI	**Sound is unusual**	● Set the sound setting of the connected equipment to "2ch L.PCM". ● Check the "HDMI1 input" setting in the Sound menu. (p. 18) ● If digital sound connection has a problem, select analogue sound connection. (p. 38)
HDMI	**An error message appears**	● Contact the authorized Service Centre.
HDMI	**"Control with HDMI" function does not work**	● Switch the TV on again with the equipment on. ● Set "Control with HDMI" to "Off", then set to "On" again. (p. 32)
SD	**The SD card cannot be used even when it is formatted**	● Contact the authorized Service Centre.

FAQs

Other

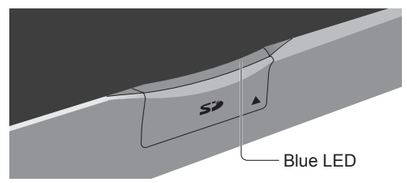
Problem	Actions
TV takes so long to turn on	● Like your computer, the TV has to run a number of diagnostic and software checks before it can display any broadcast channels.
The channel cannot be changed	● Is the TV in Teletext mode? (p. 16)
The channel cannot be selected	● Is the channel locked? (p. 24)
The remote control does not work	● Are the batteries installed correctly? (p. 6) ● Has the TV been switched On?
TV goes into "Standby mode"	● The sleep function is activated. ● The TV enters "Standby mode" about 30 min. after broadcasting ends.
An error message appears	● Follow the message's instructions. ● If the problem persists, contact the authorized Service Centre.

SD Card: On screen messages

Message	Meaning / Action
Is SD Card in?	● Insert a SD card.
SD Card is locked Please unlock to operate	● Unlock the SD card.
This file is locked Please unlock to operate	● Unlock the file in the card.
This type of format is not supported	● The TV does not support the format. (For the applicable formats and data, see p. 40.)
This type of card is not supported	● A card not supported by the TV has been inserted. (For the supported cards, see p. 40.)
Broken file Cannot display image	● The file is broken.
Memory full	● The card memory is full.
Not enough memory	● The card does not have enough memory to operate.
Cannot read file	● The file is not readable.
Unrecordable source SD recording is stopped	● That channel cannot be recorded. (Recording is automatically stopped.)
Error Check card	● Re-insert the card. If the error persists, format the card. (p. 31)
Card recording in progress Please stop recording to operate	● That operation is not available during recording. To continue the operation, stop recording. (For example, changing channels while recording a TV programme.)
Delete file?	● Displayed when you press Red colour button to delete a MPEG4 file. Press OK button to confirm deleting.
No time data Cannot store time info	● Since the signal does not have the time information, the date is recorded as 01/01/2000.

Cautions in handling SD Card :

- Do not remove the card while the TV is accessing data ("blue" LED On) (this can damage card or TV).
- Do not touch the pins on the back of the card.
- Do not subject the card to a high pressure or impact.
- Insert the card in the correct direction (otherwise, card may be damaged).
- Electrical interference, static electricity, or erroneous operation may damage the data or card.
- Back up the recorded data at regular intervals in case of deteriorated or damaged data or erratic operation of the TV. (Panasonic is not liable for any deterioration or damage of recorded data.)



WARNING: As with an small object, SD card can be swallowed by young children. Do not allow children to handle SD card. Please remove SD card immediately after use.

Licence

Trademark Credits

- DVB is a trademark of the DVB Digital Video Broadcasting Project (1991 to 1996).
- VGA is a trademark of International Business Machines Corporation.
- Macintosh is a registered trademark of Apple Computer, USA.
- S-VGA is a registered trademark of the Video Electronics Standard Association.
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- HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- HDAVI Control™ is a trademark of Matsushita Electric Industrial Co., Ltd.
- TruSurround XT, SRS and (●) symbol are trademarks of SRS Labs, Inc.
  TruSurround XT technology is incorporated under license from SRS Labs, Inc.
- Manufactured under license from Dolby Laboratories.
  “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

DVB Digital Video Broadcasting

Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)
TH-42PX600A Declaration of Conformity No 4194, 6 June 2006
TH-50PX600A Declaration of Conformity No 4194, 6 June 2006

Specifications

			TH-42PX600A	TH-50PX600A
Power Source			AC 220-240 V, 50 / 60 Hz	
Power Consumption	**Average use**		350 W	457 W
	Standby condition		0.3 W	
Display panel	**Drive method**		AC type	
	Aspect Ratio		16:9	
	Contrast Ratio		Max 10000:1	
	Visible screen size		106 cm	127 cm
			920 mm (W) × 518 mm (H) × 1,056 mm (diagonal)	1,106 mm (W) × 622 mm (H) × 1,269 mm (diagonal)
	Number of pixels		786,432 (1,024 (W) × 768 (H)) [3,072 × 768 dots]	1,049,088 (1,366 (W) × 768 (H)) [4,098 × 768 dots]
Sound	**Speaker**		Woofer (Φ80 mm) × 2 pcs, Tweeter (23 mm × 100 mm) × 2 pcs	
	Audio Output		31 W (15.5 W + 15.5 W), 10 % THD	
	Headphones		M3 (3.5 mm) stereo mini Jack × 1	
PC signals			VGA, SVGA, XGA SXGA ····· (compressed) Refer to display table on p. 39. Horizontal scanning frequency 31 - 69 kHz Vertical scanning frequency 59 - 86 Hz	
Receiving Systems / Band name			**PAL B/G** Reception of Off air broadcasts	
			DVB-T 7 MHz VHF / UHF (Australia) free-to-air TV broadcast reception	
			NTSC 4.43 **NTSC 3.58** **PAL 60Hz**	Playback from Video Tape Recorders Playback from Special Video Tape Recorders and Special Video Disc Players (Via the AV Sockets) only
Aerial - Rear			Standard Belling & Lee connector	
Operating Conditions			**Temperature** : 0 °C - 40 °C	
Connection Terminals	**AV1 Input**	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		S VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)
	AV2 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		COMPONENT	Y PB/CB, PR/CR	1.0 V[p-p] (including synchronization) ±0.35 V[p-p]
	AV3 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		COMPONENT	Y PB/CB, PR/CR	1.0 V[p-p] (including synchronization) ±0.35 V[p-p]
	AV4 Input	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms]
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
		S VIDEO	Mini DIN 4-pin	Y:1.0 V[p-p] (75 Ω) C:0.286 V[p-p] (75 Ω)
	Monitor Output	**AUDIO L - R**	RCA PIN Type × 2	0.5 V[rms] (high impedance)
		VIDEO	RCA PIN Type × 1	1.0 V[p-p] (75 Ω)
	Others	**HDMI1/2 Input**	TYPE A Connectors	
		PC Input	HIGH-DENSITY D-SUB 15PIN	R, G, B/0.7 V[p-p] (75 Ω) HD, VD/TTL Level 2.0 - 5.0 V[p-p] (high impedance)
		AUDIO Input	RCA PIN Type × 2	0.5 V[rms]
		DIGITAL AUDIO OUT	PCM / Dolby Digital, Fiber optic	
		Card slot	SD CARD slot × 1	
Dimensions (W × H × D)			1,077 mm × 689 mm × 138 (panel part : 95) mm	1,266 mm × 802 mm × 138 (panel part : 95) mm
Weight			32.5 kg Net	43.0 kg Net

Note

- Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.